

SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM: 2ZM-3MK2 PR4NM
BASIC CD MECHANISM: 6ZG-1 ZRNDM

SYSTEM	CD-CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-T77	CX-NT77	SX-WNT98	RC-ZAS04

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" NSX-T77 (S/M Code No. 09-99C-425-2T1).
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1 (S/M Code No. 09-001-338-7N2).

SPECIFICATIONS

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section>

Mid-high frequency amplifier

Power output*	Rated: 56 W + 56 W (8 ohms, THD 1 %,1 kHz) Reference: 70 W + 70 W (8 ohms, THD 10 %,1 kHz)
Total harmonic distortion	0.3 % (28 W, 1 kHz, 8 ohms, DIN AUDIO)

Low frequency amplifier

Power output*	Rated: 167 W + 167 W (6 ohms, THD 1 %,75 Hz) Reference: 210 W + 210 W (6 ohms, THD 10 %,75 Hz)
Total harmonic distortion	0.3 % (84 W,75 Hz,6 ohms, DIN AUDIO) * without connecting to surround speakers

Inputs

VIDEO/AUX : 300 mV (adjustable)
MD : 300 mV (adjustable)
MIC1,MIC2 : 1.0 mV (10 kohms)

Outputs

LINE OUT : 150 mV
SPEAKERS HIGH FREQ :
accept speakers of 8 ohms or more
SPEAKERS LOW FREQ :
accept speakers of 6 ohms or more
SURROUND SPEAKERS : accept
speakers of 8 to 16 ohms
PHONES (stereo jack) : accepts
headphones of 32 ohms or more

<Cassette deck section>

Track format

4 tracks, 2 channels stereo

Frequency response

CrO2 tape: 50 Hz – 16000 Hz
Normal tape: 50 Hz – 15000 Hz

Signal to noise ratio

60dB (Dolby B NR ON, CrO2 tape
peak level)

Recording system

Heads

AC bias
Deck 1: Playback head x 1
Deck 2: Recording/Playback head
x 1, erase head x 1

<Compact disc player section>

Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
D-A converter	1 bit dual
Signal-to-noise ratio	83 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-WNT98>


Cabinet type	4 way, built-in subwoofer
Speakers	Subwoofer : 200 mm ($7\frac{7}{8}$ in.) cone type Mid range: 100 mm ($3\frac{15}{16}$ in.) cone type Tweeter : 60 mm ($2\frac{3}{8}$ in.) cone type Super Tweeter : 20 mm ($\frac{13}{16}$ in.) ceramic type
Impedance	6 ohms / 8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	260 x 463 x 314 mm ($10\frac{1}{4}$ x $18\frac{1}{4}$ x $12\frac{3}{8}$ in.)
Weight	8.0 kg (17 lbs. 10 oz)

<General>


Power requirements	120 V/220-230 V/240 V (switchable) 50/60Hz 275W
Power consumption	
Dimensions of main unit	300 x 382.6 x 396.4mm ($11\frac{7}{8}$ x $15\frac{1}{8}$ x $15\frac{5}{8}$ in.)
Weight of main unit	13.7 kg (30 lbs. 3 oz)

Standby power consumption

If the power-economizing mode is OFF: 36 W
If the power-economizing mode is ON: 0.9 W

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

ACCESSORIES / PACKAGE LIST

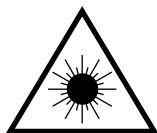
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF4-902-010		IB, LH (ESP) M
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-115-010		ANT, FEEDER FM
 4	87-A91-017-010		PLUG, CONVERSION JT-0476
5	8Z-NF5-702-010		RC UNIT, RC-ZAS04

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

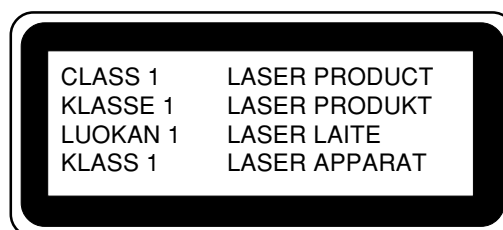
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.



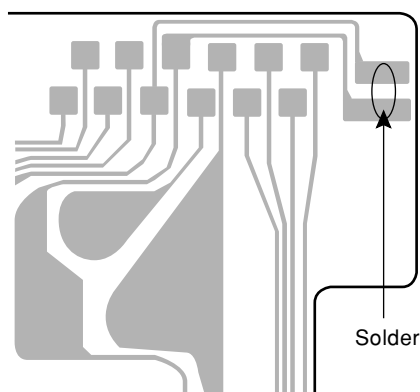
Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.

PICK-UP Assy P.C.B



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

- ① Remove the AC power cord.
- ② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
- ③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
- ④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
- ⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

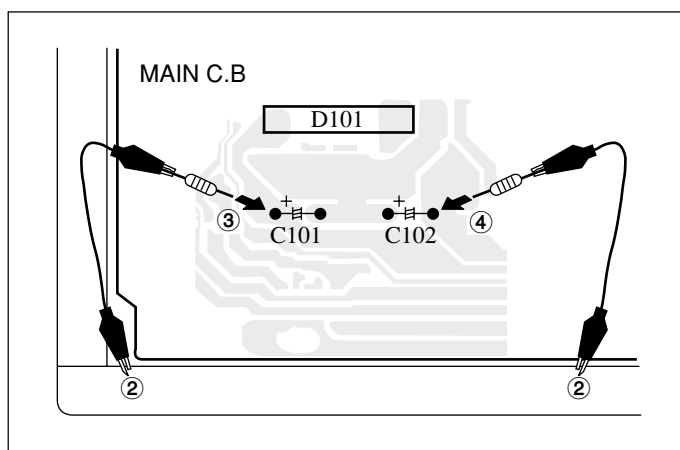


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is “H”, the MICROCOMPUTER is judged to be operating correctly. When this terminal is “L”, the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go “L” when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to “L”.

• Good or no good judgement of the MICROCOMPUTER

- ① Turn on the AC main power.
- ② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the “H” level or not.
- ③ When the HOLD terminal is “L” level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

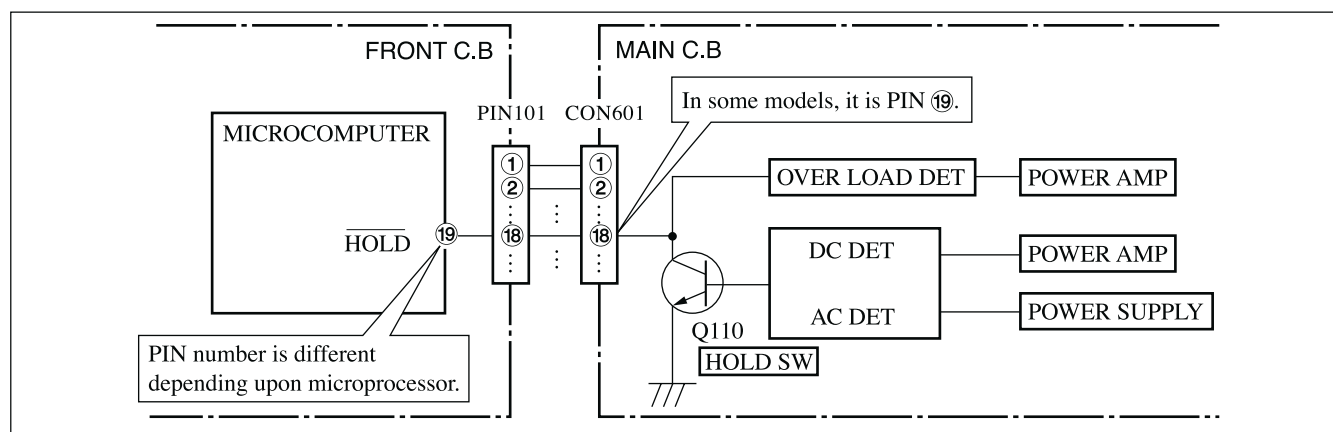


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

- ① Remove the AC power cord.

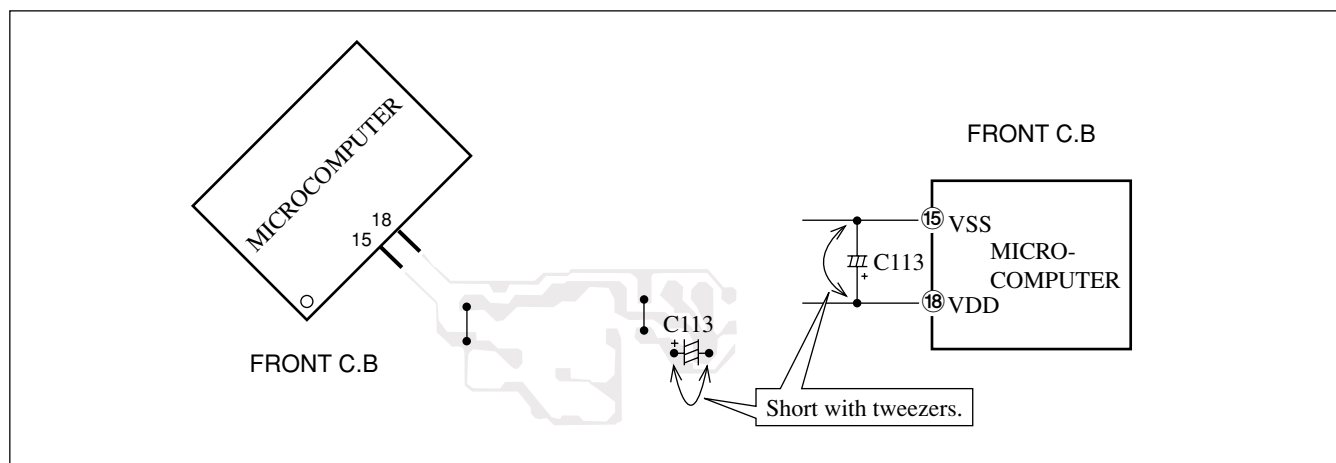


Fig-2-2

- ② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
- ③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELETRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C3	87-012-368-080		C-CAP,S 0.1-50 F
	8A-NF3-635-010	C-IC,LC876596W-5P43		C4	87-012-368-080		C-CAP,S 0.1-50 F
	87-A21-482-010	IC,RPM6938-H4		C21	87-016-035-090		CAP, E 6800-35 VR
	87-A20-869-040	C-IC,M62449FP		C22	87-016-035-090		CAP, E 6800-35 VR
	87-A21-398-010	IC,STK490-010		C25	87-010-392-080		CAP ELECT 33SME-35V
	87-A20-355-010	IC,CXA1553P					
	87-A20-783-040	C-IC,BA7762AFS		C26	87-010-258-080		CAP,E 22-35 SME
	87-A21-577-040	C-IC,M61506FP		C27	87-010-392-080		CAP ELECT 33SME-35V
	87-070-289-040	IC,BU 2092F		C28	87-010-258-080		CAP,E 22-35 SME
	87-A21-021-040	C-IC,BU2099FV		C31	87-010-263-080		CAP, ELECT 100-10V
	87-A21-018-040	C-IC,M65849BFP631D		C32	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-452-040	C-IC,BD3876KS2					
	87-A21-051-040	C-IC,BU9990-03FS		C34	87-010-247-080		CAP, ELECT 100-50V
	87-A21-415-010	IC,LA1843		C35	87-010-380-080		CAP, ELECT 47-16V
	87-070-127-110	IC,LC72131D		C36	87-010-381-080		CAP, ELECT 330-16V
				C38	87-010-384-080		CAP, ELECT 100-25V
				C39	87-010-384-080		CAP, ELECT 100-25V
				C40	87-010-197-080		CAP, CHIP 0.01 DM
				C60	87-010-403-080		CAP, ELECT 3.3-50V
TRANSISTOR				C80	87-010-401-080		CAP, ELECT 1-50V
	87-A30-217-010	TR,2SB1436 (R)		C81	87-010-374-080		CAP, ELECT 47-10V
	87-026-245-080	TR,DTC114ES		C82	87-010-260-080		CAP, ELECT 47-25V
	87-A30-198-080	TR,KTC3199GR					
	89-213-702-010	TR,2SB1370 (1.8W)		C104	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-026-610-080	TR,KTC3198GR		C105	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-076-080	C-TR,2SC3052F		C111	87-010-401-080		CAP, ELECT 1-50V
	87-A30-075-080	C-TR,2SA1235F		C112	87-010-401-080		CAP, ELECT 1-50V
	87-A30-318-080	TR,CSA952K		C115	87-010-401-080		CAP, ELECT 1-50V
	87-A30-218-080	TR,2SB1237 (Q)					
	87-A30-087-080	C-FET,2SK2158		C116	87-010-401-080		CAP, ELECT 1-50V
	87-A30-269-040	C-FET,2SJ461-T1		C121	87-010-406-080		CAP, ELECT 22-50
	87-A30-073-080	C-TR,RT1N 141C		C122	87-010-406-080		CAP, ELECT 22-50
	87-A30-074-080	C-TR,RT1P 141C		C163	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-190-080	TR,CC5551		C171	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-097-010	TR,FN 1016					
	87-A30-098-010	TR,FP 1016		C172	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-106-040	C-TR,CMBT5551		C173	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-276-040	C-TR,DTA143EKA		C174	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-063-080	C-TR,KRA104S		C175	87-A11-572-080		C-CAP,S 0.015-50 K B
	87-026-609-080	TR,KTA1266GR		C176	87-A11-572-080		C-CAP,S 0.015-50 K B
	87-A30-107-070	C-TR,CMBT5401					
	87-A30-186-010	FET,2SK3053		C177	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-086-070	C-TR,CSD1306E		C178	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-329-080	TR,CD1585BC		C301	87-010-318-080		C-CAP,S 47P-50 CH
	89-327-143-080	TR,2SC2714 (0.1W)		C302	87-010-318-080		C-CAP,S 47P-50 CH
	87-A30-072-080	C-TR,RT1P 144C		C303	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-234-080	TR,CSC4115BC					
				C304	87-012-157-080		C-CAP,S 330P-50 CH
				C305	87-012-157-080		C-CAP,S 330P-50 CH
				C306	87-012-157-080		C-CAP,S 330P-50 CH
				C307	87-010-196-080		CHIP CAPACITOR,0.1-25
				C311	87-010-198-080		CAP, CHIP 0.022
				C312	87-010-198-080		CAP, CHIP 0.022
				C313	87-010-180-080		C-CER 1500P
DIODE				C314	87-010-180-080		C-CER 1500P
	87-A40-673-090	DIODE,D10XB20		C315	87-010-178-080		CHIP CAP 1000P
	87-A40-553-080	DIODE,1N4003 LES		C316	87-010-178-080		CHIP CAP 1000P
	87-A40-784-080	ZENER,UZ39BSB					
	87-A40-736-080	DIODE,1N4148M (SEM)		C317	87-A10-201-080		C-CAP,S0.33-16 KB
	87-A40-764-080	ZENER,UZ10BSC		C318	87-A10-201-080		C-CAP,S0.33-16 KB
	87-070-274-080	DIODE,1N4003 SEM		C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
	87-A40-313-080	C-DIODE,MC 2840		C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F
	87-A40-270-080	C-DIODE,MC2838		C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F
	87-A40-269-080	C-DIODE,MC2836					
	87-A40-768-080	ZENER,UZ16BSA		C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F
	87-017-154-080	ZENER,HZS6C3L		C324	87-010-260-080		CAP, ELECT 47-25V
	87-020-331-080	CHIP-DIODE,DAN202K		C325	87-010-370-080		CAP,E 330-6.3 SME
	87-A40-488-080	DIODE,1SS244		C327	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-747-080	ZENER,UZ5.1BSB		C328	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-751-080	ZENER,UZ6.2BSB					
	87-A40-646-010	DIODE,FMB-G16L		C332	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-745-080	ZENER,UZ4.7BSA		C335	87-010-401-080		CAP, ELECT 1-50V
	87-A40-749-080	ZENER,UZ5.6BSB		C336	87-010-401-080		CAP, ELECT 1-50V
	87-017-149-080	ZENER,HZS6A2L		C337	87-010-196-080		CHIP CAPACITOR,0.1-25
				C339	87-010-196-080		CHIP CAPACITOR,0.1-25
				C340	87-010-196-080		CHIP CAPACITOR,0.1-25
				C351	87-012-140-080		CAP 470P
				C352	87-012-140-080		CAP 470P
				C354	87-010-175-080		CAP 560P
				C355	87-012-349-080		C-CAP,S 1000P-50 CH
MAIN C.B							

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C356	87-010-260-080		CAP, ELECT 47-25V	C635	87-A10-307-080		C-CAP,S 0.1-25 K B
C357	87-010-197-080		CAP, CHIP 0.01 DM	C636	87-A10-307-080		C-CAP,S 0.1-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 B	C637	87-A10-307-080		C-CAP,S 0.1-25 K B
C359	87-010-183-080		C-CAP,S 2700P-50 B	C638	87-A10-307-080		C-CAP,S 0.1-25 K B
C360	87-010-183-080		C-CAP,S 2700P-50 B	C639	87-010-405-080		CAP, ELECT 10-50V
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C641	87-010-401-080		CAP, ELECT 1-50V
C371	87-010-175-080		C-CAP,S 560P-50 SL	C642	87-010-401-080		CAP, ELECT 1-50V
C372	87-010-175-080		C-CAP,S 560P-50 SL	C643	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-010-179-080		CAP,CHIP S B1200P	C644	87-010-401-080		CAP, ELECT 1-50V
C374	87-010-179-080		CAP,CHIP S B1200P	C671	87-010-322-080		C-CAP,S 100P-50 CH
C375	87-010-545-080		CAP, ELECT 0.22-50V	C672	87-010-322-080		C-CAP,S 100P-50 CH
C376	87-010-545-080		CAP, ELECT 0.22-50V	C673	87-010-197-080		CAP, CHIP 0.01 DM
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM	C680	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-318-080		C-CAP,S 47P-50 CH	C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C383	87-010-197-080		CAP, CHIP 0.01 DM	C771	87-010-263-080		CAP, ELECT 100-10V
C384	87-010-402-080		CAP, ELECT 2.2-50V	C772	87-010-197-080		CAP, CHIP 0.01 DM
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)	C773	87-010-184-080		CHIP CAPACITOR 3300P(K)
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C774	87-010-184-080		CHIP CAPACITOR 3300P(K)
C388	87-012-156-080		C-CAP,S 220P-50 CH	C779	87-A10-679-080		C-CAP,S 3300P-50 TR
C501	87-010-263-080		CAP, ELECT 100-10V	C780	87-A10-679-080		C-CAP,S 3300P-50 TR
C502	87-010-196-080		CHIP CAPACITOR,0.1-25	C782	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-016-460-080		C-CAP,S 0.22-16 K B	C783	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-016-460-080		C-CAP,S 0.22-16 K B	C784	87-010-197-080		CAP, CHIP 0.01 DM
C505	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C785	87-010-197-080		CAP, CHIP 0.01 DM
C506	87-010-184-080		CHIP CAPACITOR 3300P(K)	C786	87-010-197-080		CAP, CHIP 0.01 DM
C507	87-A11-550-080		C-CAP,S 820P-50 K B	C788	87-010-149-080		C-CAP,S 5P-50 CH
C508	87-016-669-080		C-CAP,S 0.1-25 K B	C789	87-A10-592-080		C-CAP,S 0.015-50 J
C509	87-016-669-080		C-CAP,S 0.1-25 K B	C790	87-A10-592-080		C-CAP,S 0.015-50 J
C510	87-010-184-080		CHIP CAPACITOR 3300P(K)	C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C511	87-A11-550-080		C-CAP,S 820P-50 K B	C792	87-010-197-080		CAP, CHIP 0.01 DM
C512	87-016-460-080		C-CAP,S 0.22-16 K B	C793	87-010-404-080		CAP, ELECT 4.7-50V
C513	87-010-544-080		CAP, ELECT 0.1-50V	C795	87-010-197-080		CAP, CHIP 0.01 DM
C514	87-010-374-080		CAP, ELECT 47-10V	C796	87-010-197-080		CAP, CHIP 0.01 DM
C515	87-010-401-080		CAP, ELECT 1-50V	C797	87-010-405-080		CAP, ELECT 10-50V
C516	87-010-401-080		CAP, ELECT 1-50V	C798	87-010-197-080		CAP, CHIP 0.01 DM
C517	87-010-183-080		C-CAP,S 2700P-50 B	C799	87-010-407-080		CAP, ELECT 33-50V
C518	87-010-183-080		C-CAP,S 2700P-50 B	C800	87-012-369-080		C-CAP,S 0.047-50F
C531	87-010-560-080		CAP,E 10-50 GAS	C801	87-010-403-080		CAP, ELECT 3.3-50V
C532	87-010-196-080		CHIP CAPACITOR,0.1-25	C802	87-012-369-080		C-CAP,S 0.047-50F
C533	87-010-196-080		CHIP CAPACITOR,0.1-25	C803	87-010-198-080		CAP, CHIP 0.022
C534	87-012-156-080		C-CAP,S 220P-50 CH	C804	87-010-263-080		CAP, ELECT 100-10V
C535	87-010-178-080		CHIP CAP 1000P	C807	87-010-400-080		CAP, ELECT 0.47-50V
C536	87-010-196-080		CHIP CAPACITOR,0.1-25	C808	87-010-401-080		CAP, ELECT 1-50V
C538	87-010-318-080		C-CAP,S 47P-50 CH	C809	87-010-401-080		CAP, ELECT 1-50V
C541	87-010-178-080		CHIP CAP 1000P	C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C603	87-010-318-080		C-CAP,S 47P-50 CH	C811	87-010-403-080		CAP, ELECT 3.3-50V
C604	87-010-318-080		C-CAP,S 47P-50 CH	C812	87-010-403-080		CAP, ELECT 3.3-50V
C605	87-010-318-080		C-CAP,S 47P-50 CH	C814	87-010-197-080		CAP, CHIP 0.01 DM
C606	87-010-318-080		C-CAP,S 47P-50 CH	C815	87-010-400-080		CAP, ELECT 0.47-50V
C611	87-010-956-080		CHIP-CAP,S 0.068-25B	C816	87-010-403-080		CAP, ELECT 3.3-50V
C612	87-010-369-080		C-CAP,S 0.033-25 K B	C819	87-010-179-080		CAP,CHIP S B1200P
C613	87-010-197-080		CAP, CHIP 0.01 DM	C820	87-010-179-080		CAP,CHIP S B1200P
C614	87-016-669-080		C-CAP,S 0.1-25 K B	C821	87-010-405-080		CAP, ELECT 10-50V
C616	87-010-180-080		C-CER 1500P	C823	87-010-177-080		C-CAP,S 820P-50 SL
C617	87-010-198-080		CAP, CHIP 0.022	C824	87-010-405-080		CAP, ELECT 10-50V
C618	87-010-401-080		CAP, ELECT 1-50V	C825	87-010-596-080		CAP, S 0.047-16
C619	87-010-263-080		CAP, ELECT 100-10V	C842	87-010-197-080		CAP, CHIP 0.01 DM
C620	87-016-669-080		C-CAP,S 0.1-25 K B	C844	87-010-197-080		CAP, CHIP 0.01 DM
C621	87-010-197-080		CAP, CHIP 0.01 DM	C850	87-010-260-080		CAP, ELECT 47-25V
C623	87-010-401-080		CAP, ELECT 1-50V	C851	87-010-197-080		CAP, CHIP 0.01 DM
C624	87-010-401-080		CAP, ELECT 1-50V	C852	87-010-197-080		CAP, CHIP 0.01 DM
C626	87-010-992-080		C-CAP,S 0.047-16 K B	C853	87-010-197-080		CAP, CHIP 0.01 DM
C627	87-010-400-080		CAP, ELECT 0.47-50V	C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C628	87-010-400-080		CAP, ELECT 0.47-50V	C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C629	87-010-992-080		C-CAP,S 0.047-16 K B	C860	87-010-197-080		CAP, CHIP 0.01 DM
C630	87-010-383-080		CAP, ELECT 100-10V	C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C631	87-010-185-080		C-CAP,S 3900P-50 B	C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C632	87-010-185-080		C-CAP,S 3900P-50 B	C961	87-010-152-080		C-CAP,S 8P-50 CH
C634	87-010-196-080		CHIP CAPACITOR,0.1-25	C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C971	87-010-381-080		CAP, ELECT 330-16V	C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C972	87-010-404-080		CAP, ELECT 4.7-50V	C104	87-010-313-080		CAP, CHIP 18P
C973	87-010-197-080		CAP, CHIP 0.01 DM	C105	87-010-322-080		C-CAP,S 100P-50 CH
C974	87-010-197-080		CAP, CHIP 0.01 DM	C106	87-012-145-080		CAP, CHIP S 270P CH
C979	87-010-322-080		C-CAP,S 100P-50 CH	C107	87-012-157-080		C-CAP,S 330P-50 CH
C981	87-010-260-080		CAP, ELECT 47-25V	C108	87-015-681-040		E/CAP 10-16
C982	87-010-196-080		CHIP CAPACITOR,0.1-25	C109	87-010-401-040		CAP,E 1-50 SME
C983	87-010-197-080		CAP, CHIP 0.01 DM	C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C984	87-010-197-080		CAP, CHIP 0.01 DM	C112	87-016-460-080		C-CAP,S 0.22-16 K B
C987	87-010-197-080		CAP, CHIP 0.01 DM	C113	87-A10-189-040		CAP,E 220-10
C991	87-010-312-080		C-CAP,S 15P-50 CH	C114	87-010-196-080		CHIP CAPACITOR,0.1-25
C992	87-010-312-080		C-CAP,S 15P-50 CH	C115	87-010-198-080		CAP, CHIP 0.022
C993	87-010-178-080		CHIP CAP 1000P	C116	87-010-493-040		CAP,E 0.47-50 GAS
C995	87-010-178-080		CHIP CAP 1000P	C117	87-010-498-040		CAP,E 10-16 GAS
C997	87-010-196-080		CHIP CAPACITOR,0.1-25	C118	87-010-194-080		CAP, CHIP 0.047
C998	87-010-260-080		CAP, ELECT 47-25V	C119	87-A10-797-040		CAP,E 47-35 M 5L SRM
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C120	87-015-699-040		CAP,E 10-50 7L
CF831	87-008-261-010		FILTER, SFE10.7MA5-A	C121	87-015-699-040		CAP,E 10-50 7L
CF832	87-008-261-010		FILTER, SFE10.7MA5-A	C122	87-010-197-080		CAP, CHIP 0.01 DM
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C123	87-010-196-080		CHIP CAPACITOR,0.1-25
CN91	87-A60-619-010		CONN,2P V 2MM JMT	C125	87-010-196-080		CHIP CAPACITOR,0.1-25
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C128	87-010-178-080		CHIP CAP 1000P
CN301	87-A60-620-010		CONN,3P V 2MM JMT	C129	87-010-194-080		CAP, CHIP 0.047
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C131	87-A10-189-040		CAP,E 220-10
CN601	87-099-719-010		CONN,30P TYK-B(X)	C132	87-A10-189-040		CAP,E 220-10
CN602	87-A60-131-010		CONN,6P V FE	C151	87-010-194-080		CAP, CHIP 0.047
CN605	87-099-568-010		CONN,11P TUC-P11P-B1	C192	87-015-785-080		C-CAP, 0.1-25 Z F C3216
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C196	87-010-194-080		CAP, CHIP 0.047
CNA2	8A-NF3-640-010		CONN ASSY,3P (VM) ANF-3	C197	87-010-194-080		CAP, CHIP 0.047
CNA3	87-049-919-010		CONN,3P V WHT EH	C213	87-A10-189-040		CAP,E 220-10
FB501	87-008-372-080		FILTER, EMI BL OIRNI	C301	87-010-318-080		C-CAP,S 47P-50 CH
FC602	88-906-481-110		FF-CABLE,6P 1.25 480MM	C303	87-016-460-080		C-CAP,S 0.22-16 K B
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM	C304	87-016-460-080		C-CAP,S 0.22-16 K B
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)	C305	87-010-196-080		CHIP CAPACITOR,0.1-25
J103	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C306	87-010-196-080		CHIP CAPACITOR,0.1-25
J601	87-A60-885-010		JACK,PIN 6P R/W MSC	C310	87-010-067-040		CAP,E 0.1-50 5L
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C701	87-010-981-040		CAP,E 22-35 5L SRE
L101	87-A50-610-010		COIL,1UHK	C801	87-012-156-080		C-CAP,S 220P-50 CH
L102	87-A50-610-010		COIL,1UHK	C802	87-010-176-080		C-CAP,S 680P-50 SL
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C803	87-010-187-080		CAP CHIP S5600P
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C804	87-010-213-080		C-CAP,S 0.015-50 B
L351	87-007-342-010		COIL,OSC 85K BIAS	C805	87-010-197-080		CAP, CHIP 0.01 DM
L801	87-A50-266-010		COIL,FM DET-2N(TOK)	C806	87-010-071-040		CAP,E 1-50 M 5L SRE
L802	87-A91-110-010		FLTR,PCFJZH-450 (TOK)	C807	87-010-197-080		CAP, CHIP 0.01 DM
L811	87-005-847-080		COIL,2.2UH (CECS)	C809	87-012-155-080		C-CAP 180P-50CH
L821	87-A50-209-010		COIL,1POLE MPX(MIT)	C810	87-010-264-040		CAP,E 100-10 5L
L822	87-A50-209-010		COIL,1POLE MPX(MIT)	C811	87-010-244-040		CAP,E 22-16 5L
L832	87-005-847-080		COIL,2.2UH(CECS)	C812	87-016-044-040		CAP,E 100-16 GAS
L951	8A-NF8-667-010		COIL,AM PACK 4 (TOK)	C821	87-010-196-080		CHIP CAPACITOR,0.1-25
R161	87-A00-441-050		RES,270-1/2W J RP	C833	87-010-322-080		C-CAP,S 100P-50 CH
R162	87-A00-441-050		RES,270-1/2W J RP	C901	87-012-157-080		C-CAP,S 330P-50 CH
R163	87-A00-441-050		RES,270-1/2W J RP	C902	87-010-176-080		C-CAP,S 680P-50 SL
R164	87-A00-441-050		RES,270-1/2W J RP	C903	87-010-176-080		C-CAP,S 680P-50 SL
R790	87-010-197-080		CAP, CHIP 0.01 DM	C904	87-010-176-080		C-CAP,S 680P-50 SL
R991	87-010-322-080		C-CAP,S 100P-50 CH	C905	87-010-176-080		C-CAP,S 680P-50 SL
R993	87-010-322-080		C-CAP,S 100P-50 CH	C906	87-010-176-080		C-CAP,S 680P-50 SL
R995	87-010-322-080		C-CAP,S 100P-50 CH	C907	87-010-176-080		C-CAP,S 680P-50 SL
SFR301	87-024-355-080		SFR,33K DIA6 H	C908	87-010-176-080		C-CAP,S 680P-50 SL
SFR302	87-024-355-080		SFR,33K DIA6 H	C909	87-010-176-080		C-CAP,S 680P-50 SL
SFR303	87-024-355-080		SFR,33K DIA6 H	C910	87-010-176-080		C-CAP,S 680P-50 SL
SFR304	87-024-355-080		SFR,33K DIA6 H	C911	87-010-176-080		C-CAP,S 680P-50 SL
SFR305	87-024-356-080		SFR,47K DIA6 H	C912	87-010-176-080		C-CAP,S 680P-50 SL
SFR306	87-024-356-080		SFR,47K DIA6 H	C913	87-010-176-080		C-CAP,S 680P-50 SL
SFR351	87-024-356-080		SFR,47K DIA6 H	C914	87-012-145-080		CAP, CHIP S 270P CH
SFR352	87-024-356-080		SFR,47K DIA6 H	CN101	87-099-720-010		CONN,30P TYK-B(P)
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	CN102	87-A60-054-010		CONN,14P V 9604S-14C
				CN103	87-099-750-010		CONN,15P V 9604SC
				CN601	87-A60-062-010		CONN,05P V 9604S-05C
				CN701	87-099-750-010		CONN,15P V 9604SC
				FC102	88-914-481-110		FF-CABLE,14P 1.25 480MM

DISPLAY C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FC601	88-905-081-110		FF-CABLE, 5P 1.25	S226	87-A90-095-080		SW, TACT EVQ11G04M
FC701	88-915-161-110		FF-CABLE, 15P 1.25	S227	87-A90-095-080		SW, TACT EVQ11G04M
FL101	8A-NF3-613-010		FL, BJ752GK-ANF3	S228	87-A90-095-080		SW, TACT EVQ11G04M
L101	87-A50-333-010		COIL, OSC 9.43MHZ	S229	87-A90-095-080		SW, TACT EVQ11G04M
L801	87-A50-093-010		COIL, CLOCK 5.76MHZ	S230	87-A90-095-080		SW, TACT EVQ11G04M
L802	87-003-098-080		COIL, 2.2UH	S231	87-A90-095-080		SW, TACT EVQ11G04M
CONTROL C.B				S232	87-A90-095-080		SW, TACT EVQ11G04M
C401	87-010-196-080		CHIP CAPACITOR, 0.1-25	S241	87-A90-095-080		SW, TACT EVQ11G04M
C407	87-010-322-080		C-CAP, S 100P-50 CH	S242	87-A90-095-080		SW, TACT EVQ11G04M
C410	87-010-196-080		CHIP CAPACITOR, 0.1-25	S243	87-A90-095-080		SW, TACT EVQ11G04M
C417	87-010-322-080		C-CAP, S 100P-50 CH	S244	87-A90-095-080		SW, TACT EVQ11G04M
C423	87-010-196-080		CHIP CAPACITOR, 0.1-25	S245	87-A90-095-080		SW, TACT EVQ11G04M
C424	87-010-196-080		CHIP CAPACITOR, 0.1-25	S246	87-A90-095-080		SW, TACT EVQ11G04M
C501	87-010-178-080		CHIP CAP 1000P	S247	87-A90-095-080		SW, TACT EVQ11G04M
C502	87-012-156-080		C-CAP, S 220P-50 CH	S248	87-A90-095-080		SW, TACT EVQ11G04M
C531	87-010-196-080		CHIP CAPACITOR, 0.1-25	S249	87-A90-095-080		SW, TACT EVQ11G04M
C532	87-010-196-080		CHIP CAPACITOR, 0.1-25	S250	87-A90-095-080		SW, TACT EVQ11G04M
CN104	87-099-750-010		CONN, 15P V 9604SC	S251	87-A90-095-080		SW, TACT EVQ11G04M
CN302	87-A60-059-010		CONN, 08P V 9604S-08C	SW501	87-A91-739-010		SW, RTRY EC12E12404-25MM RT
FC104	88-915-161-110		FF-CABLE, 15P 1.25	AMP C.B			
FC302	88-908-381-110		FF-CABLE, 8P 1.25	C101	87-010-188-080		CHIP CAP 6800P
LED101	87-A40-317-080		LED, SLR-342VCT31 RED	C102	87-010-188-080		CHIP CAP 6800P
LED421	87-A40-843-010		LED, 2363-2UBC/F45-27 BLUE	C103	87-010-405-080		CAP, ELECT 10-50V
LED422	87-A40-843-010		LED, 2363-2UBC/F45-27 BLUE	C104	87-010-405-080		CAP, ELECT 10-50V
LED440	87-A40-380-180		LED, SEL6510C-TP5 GRN	C107	87-010-404-080		CAP, ELECT 4.7-50V
LED441	87-A40-380-180		LED, SEL6510C-TP5 GRN	C108	87-010-404-080		CAP, ELECT 4.7-50V
LED442	87-A40-380-180		LED, SEL6510C-TP5 GRN	C111	87-010-322-080		C-CAP, S 100P-50 CH
LED443	87-A40-380-180		LED, SEL6510C-TP5 GRN	C112	87-010-322-080		C-CAP, S 100P-50 CH
LED444	87-A40-380-180		LED, SEL6510C-TP5 GRN	C113	87-A10-812-080		C-CAP, S 220P-200 J CH
LED445	87-A40-380-180		LED, SEL6510C-TP5 GRN	C114	87-A10-812-080		C-CAP, S 220P-200 J CH
LED446	87-A40-380-180		LED, SEL6510C-TP5 GRN	C119	87-010-197-080		CAP, CHIP 0.01 DM
LED447	87-A40-380-180		LED, SEL6510C-TP5 GRN	C120	87-010-197-080		CAP, CHIP 0.01 DM
LED448	87-A40-380-180		LED, SEL6510C-TP5 GRN	C121	87-010-260-080		CAP, ELECT 47-25V
LED449	87-A40-380-180		LED, SEL6510C-TP5 GRN	C122	87-010-260-080		CAP, ELECT 47-25V
LED451	87-A40-537-040		LED, SLR-56PT-T31-W	C173	87-010-186-080		CAP, CHIP 4700P
LED452	87-A40-537-040		LED, SLR-56PT-T31-W	C174	87-010-186-080		CAP, CHIP 4700P
LED453	87-A40-537-040		LED, SLR-56PT-T31-W	C201	87-A10-304-080		CAP, M 0.056-50 J
LED454	87-A40-537-040		LED, SLR-56PT-T31-W	C202	87-A10-304-080		CAP, M 0.056-50 J
LED455	87-A40-537-040		LED, SLR-56PT-T31-W	C203	87-A10-303-080		CAP, M 0.047-50 J
LED456	87-A40-537-040		LED, SLR-56PT-T31-W	C204	87-A10-303-080		CAP, M 0.047-50 J
LED461	87-A40-317-080		LED, SLR-342VCT31 RED	C205	87-010-177-080		C-CAP, S 820P-50 SL
LED462	87-A40-317-080		LED, SLR-342VCT31 RED	C206	87-010-177-080		C-CAP, S 820P-50 SL
LED463	87-A40-317-080		LED, SLR-342VCT31 RED	C207	87-010-403-080		CAP, ELECT 3.3-50V
LED464	87-A40-317-080		LED, SLR-342VCT31 RED	C208	87-010-403-080		CAP, ELECT 3.3-50V
LED465	87-A40-317-080		LED, SLR-342VCT31 RED	C209	87-010-184-080		CHIP CAPACITOR 3300P(K)
LED521	87-A40-847-010		LED, 2363-2UBC/C470 BLUE	C210	87-010-184-080		CHIP CAPACITOR 3300P(K)
LED522	87-A40-847-010		LED, 2363-2UBC/C470 BLUE	C211	87-010-401-080		CAP, ELECT 1-50 M 11L SME
S201	87-A90-095-080		SW, TACT EVQ11G04M	C212	87-010-401-080		CAP, ELECT 1-50 M 11L SME
S202	87-A90-095-080		SW, TACT EVQ11G04M	C215	87-012-156-080		C-CAP, S 220P-50 CH
S203	87-A90-095-080		SW, TACT EVQ11G04M	C216	87-012-156-080		C-CAP, S 220P-50 CH
S204	87-A90-095-080		SW, TACT EVQ11G04M	C217	87-010-260-080		CAP, ELECT 47-25V
S205	87-A90-095-080		SW, TACT EVQ11G04M	C218	87-010-260-080		CAP, ELECT 47-25V
S206	87-A90-095-080		SW, TACT EVQ11G04M	C221	87-010-405-080		CAP, ELECT 10-50V
S207	87-A90-095-080		SW, TACT EVQ11G04M	C222	87-010-405-080		CAP, ELECT 10-50V
S208	87-A90-095-080		SW, TACT EVQ11G04M	C223	87-010-197-080		CAP, CHIP 0.01 DM
S211	87-A90-095-080		SW, TACT EVQ11G04M	C224	87-010-197-080		CAP, CHIP 0.01 DM
S212	87-A90-095-080		SW, TACT EVQ11G04M	C249	87-012-368-080		C-CAP, S 0.1-50 F
S213	87-A90-095-080		SW, TACT EVQ11G04M	C251	87-010-993-080		C-CAP, S 0.056-25 B
S214	87-A90-095-080		SW, TACT EVQ11G04M	C252	87-010-196-080		CHIP CAPACITOR, 0.1-25
S215	87-A90-095-080		SW, TACT EVQ11G04M	C253	87-010-196-080		CHIP CAPACITOR, 0.1-25
S216	87-A90-095-080		SW, TACT EVQ11G04M	C254	87-010-993-080		C-CAP, S 0.056-25 B
S217	87-A90-095-080		SW, TACT EVQ11G04M	C255	87-010-190-080		S CHIP F 0.01
S221	87-A90-095-080		SW, TACT EVQ11G04M	C256	87-010-190-080		S CHIP F 0.01
S222	87-A90-095-080		SW, TACT EVQ11G04M	C402	87-010-196-080		CHIP CAPACITOR, 0.1-25
S223	87-A90-095-080		SW, TACT EVQ11G04M	C413	87-A10-119-080		CAP, E 10-100 REA
S224	87-A90-095-080		SW, TACT EVQ11G04M	C414	87-A10-119-080		CAP, E 10-100 REA
S225	87-A90-095-080		SW, TACT EVQ11G04M	CNA103	8A-NF8-656-010		CONN ASSY, 5P TID-A(400)
				CON101	87-A61-011-010		CONN, 13P H BLK TAC-L13P-A3

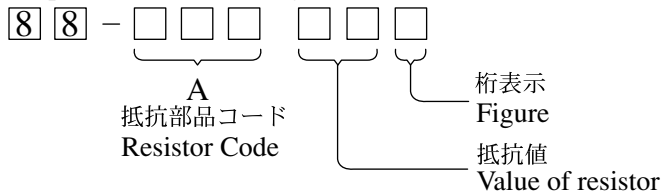
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CON102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	C215	87-010-197-080		CAP, CHIP 0.01 DM
J201	87-A61-148-010		JACK,PIN 4P R/W BLUE	C216	87-010-197-080		CAP, CHIP 0.01 DM
L251	87-A50-610-010		COIL,1UH K(MDEC)	C217	87-010-198-080		CAP, CHIP 0.022
L252	87-A50-610-010		COIL,1UH K(MDEC)	C218	87-010-198-080		CAP, CHIP 0.022
R161	87-A00-418-010		RES,M/F 0.15-3W J	C219	87-010-183-080		C-CAP,S 2700P-50 B
R162	87-A00-418-010		RES,M/F 0.15-3W J	C220	87-010-183-080		C-CAP,S 2700P-50 B
R165	87-A00-418-010		RES,M/F 0.15-3W J	C221	87-010-188-080		CAP,CHIP 6800P
R166	87-A00-418-010		RES,M/F 0.15-3W J	C222	87-010-188-080		CAP,CHIP 6800P
R231	87-A00-258-080		RES,M/F 0.22-1W J	C223	87-010-178-080		CHIP CAP 1000P
R232	87-A00-258-080		RES,M/F 0.22-1W J	C224	87-010-178-080		CHIP CAP 1000P
R243	87-A00-258-080		RES,M/F 0.22-1W J	C225	87-010-182-080		C-CAP,S 2200P-50 B
R244	87-A00-258-080		RES,M/F 0.22-1W J	C226	87-010-182-080		C-CAP,S 2200P-50 B
TH101	87-A91-042-080		C-THMS,100K 55001	C227	87-010-112-080		CAP, ELECT 100-16V
TH102	87-A91-042-080		C-THMS,100K 55001	C228	87-010-196-080		CHIP CAPACITOR,0.1-25
WH103	87-A90-459-010		HLDR,WIRE 2.5-5P	C229	87-010-322-080		C-CAP,S 100P-50 CH
PT C.B				C230	87-010-322-080		C-CAP,S 100P-50 CH
C1	87-010-387-080		CAP,E 470-25 SME	C231	87-010-322-080		C-CAP,S 100P-50 CH
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F	CN201	87-A60-546-010		CONN,11P H GRY TUC-P11X-C1
C9	87-A11-148-080		CAP,TC U 0.1-50 Z F	VM C.B			
C10	87-A11-148-080		CAP,TC U 0.1-50 Z F	CN301	87-A60-079-010		CONN,08P H 9604S-08F
C11	87-A11-148-080		CAP,TC U 0.1-50 Z F	VOLUME C.B			
C12	87-010-917-000		CAP,E 3300-50 M SMG	S511	87-A90-095-080		SW,TACT EVQ11G04M
C13	87-010-917-000		CAP,E 3300-50 M SMG	S512	87-A90-095-080		SW,TACT EVQ11G04M
C16	87-010-403-040		CAP,E 3.3-50 SME	S513	87-A90-095-080		SW,TACT EVQ11G04M
C18	87-A11-148-080		CAP,TC U 0.1-50 Z F	S514	87-A90-095-080		SW,TACT EVQ11G04M
C19	87-A11-148-080		CAP,TC U 0.1-50 Z F	S515	87-A90-095-080		SW,TACT EVQ11G04M
C20	87-A11-148-080		CAP,TC U 0.1-50 Z F	SW101	87-A91-740-010		SW,RTRY EC12E24308-30MM
C21	87-A11-148-080		CAP,TC U 0.1-50 Z F	MIC C.B			
C22	87-A10-231-090		CAP,E 3300-80	C161	87-010-178-080		CHIP CAP 1000P
C23	87-A10-231-090		CAP,E 3300-80	C162	87-012-156-080		C-CAP,S 220P-50 CH
C27	87-A11-148-080		CAP,TC U 0.1-50 Z F	C601	87-010-196-080		CHIP CAPACITOR,0.1-25
C28	87-A11-148-080		CAP,TC U 0.1-50 Z F	C602	87-010-186-080		CAP,CHIP 4700P
C29	87-A11-148-080		CAP,TC U 0.1-50 Z F	C603	87-010-112-040		CAP,E 100-16
C30	87-A11-148-080		CAP,TC U 0.1-50 Z F	C604	87-010-405-040		CAP,E 10-50
C31	87-A11-148-080		CAP,TC U 0.1-50 Z F	C605	87-010-546-040		CAP,E 0.33-50
C32	87-A11-148-080		CAP,TC U 0.1-50 Z F	C606	87-010-320-080		CHIP CAP 68P
C33	87-A11-148-080		CAP,TC U 0.1-50 Z F	C608	87-012-157-080		C-CAP,S 330P-50 CH
C34	87-A11-148-080		CAP,TC U 0.1-50 Z F	C621	87-010-178-080		CHIP CAP 1000P
C35	87-A11-148-080		CAP,TC U 0.1-50 Z F	CN602	87-A60-082-010		CONN,05P H 9604S-05F
C36	87-A11-148-080		CAP,TC U 0.1-50 Z F	J601	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
C37	87-A11-148-080		CAP,TC U 0.1-50 Z F	J602	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
C38	87-A11-148-080		CAP,TC U 0.1-50 Z F	L601	87-003-098-080		COIL,2.2UH K LAL02
CN1	87-A61-110-010		CONN,9P V TID-A	CD KEY C.B			
CN2	87-A61-108-010		CONN,5P V TID-A	LED311	87-A40-380-180		LED,SEL6510C-TP5 GRN
FC1	87-033-213-080		FUSE, CLAMP PFC5000	LED312	87-A40-380-180		LED,SEL6510C-TP5 GRN
FC2	87-033-213-080		FUSE, CLAMP PFC5000	LED313	87-A40-380-180		LED,SEL6510C-TP5 GRN
FC3	87-033-213-080		FUSE, CLAMP PFC5000	LED314	87-A40-380-180		LED,SEL6510C-TP5 GRN
FC4	87-033-213-080		FUSE, CLAMP PFC5000	LED315	87-A40-380-180		LED,SEL6510C-TP5 GRN
PT1	8A-NF4-602-010		PT,LH EI96-60 ANF-4	S311	87-A90-095-080		SW,TACT EVQ11G04M
PT2	8A-NF8-673-010		PT,SUB ANF-8 (H)KAMI	S312	87-A90-095-080		SW,TACT EVQ11G04M
RY2	87-A91-300-010		RELAY,AC 12V-ALA2PFI2	S313	87-A90-095-080		SW,TACT EVQ11G04M
S1	87-A90-165-010		SW,SL 1-2-3 SWS2301	S314	87-A90-095-080		SW,TACT EVQ11G04M
T1	87-A60-317-010		TERMINAL, 1P MSC	S315	87-A90-095-080		SW,TACT EVQ11G04M
T2	87-A60-317-010		TERMINAL, 1P MSC	S316	87-A90-095-080		SW,TACT EVQ11G04M
GEQ C.B				S317	87-A90-095-080		SW,TACT EVQ11G04M
C201	87-010-402-080		CAP, ELECT 2.2-50V	DECK C.B			
C202	87-010-402-080		CAP, ELECT 2.2-50V	W1	82-ZM3-601-019		RBN,CORD,4P-75
C205	87-010-404-080		CAP, ELECT 4.7-50V	CON105	87-099-756-019		CONN,15P 9604 S F
C207	87-016-669-080		C-CAP,S 0.1-25 K B	SFR1	87-024-581-019		SFR,3.3K DIA 6H
C208	87-016-669-080		C-CAP,S 0.1-25 K B	SOL1	82-ZM1-618-410		SOL ASSY,27
C209	87-016-460-080		C-CAP,S 0.22-16 B				
C210	87-016-460-080		C-CAP,S 0.22-16 B				
C211	87-012-365-080		C-CAP,S 0.027-25VBK				
C212	87-012-365-080		C-CAP,S 0.027-25VBK				
C213	87-010-956-080		CHIP-CAP,S 0.068-25B				
C214	87-010-956-080		CHIP-CAP,S 0.068-25B				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SOL2	82-ZM1-618-410		SOL ASSY, 27	HEAD-1	C.B		
SW1	87-A90-248-019		SW, MICRO ESE11SH2CXQ		85-ZM3-602-010		PWB, FLEX A
SW2	87-A90-248-019		SW, MICRO ESE11SH2CXQ				
SW3	87-A90-248-019		SW, MICRO ESE11SH2CXQ	HEAD-2	C.B		
SW4	87-036-110-019		SW, MICRO SPPB62		85-ZM3-602-010		PWB, FLEX A
SW5	87-036-110-019		SW, MICRO SPPB62	CON351	87-NF6-616-010		CONN ASSY, 8P-RPB
SW6	87-036-110-019		SW, MICRO SPPB62				
SW8	87-A90-248-019		SW, MICRO ESE11SH2CXQ				
SW9	87-A90-248-019		SW, MICRO ESE11SH2CXQ				


チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗 Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A
				外形／Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

KTA1266GR
KTC3198GR
KTC3199GR
CSA952K



E C B

CD1585BC
CSC4115BC

CC5551



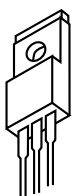
E C B

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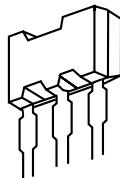
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2SB1436



B C E

2SB1370
FP1016
FN1016



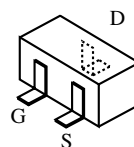
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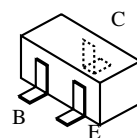
G D S

2SK3053



G S D

2SK2158
2SJ461-T1



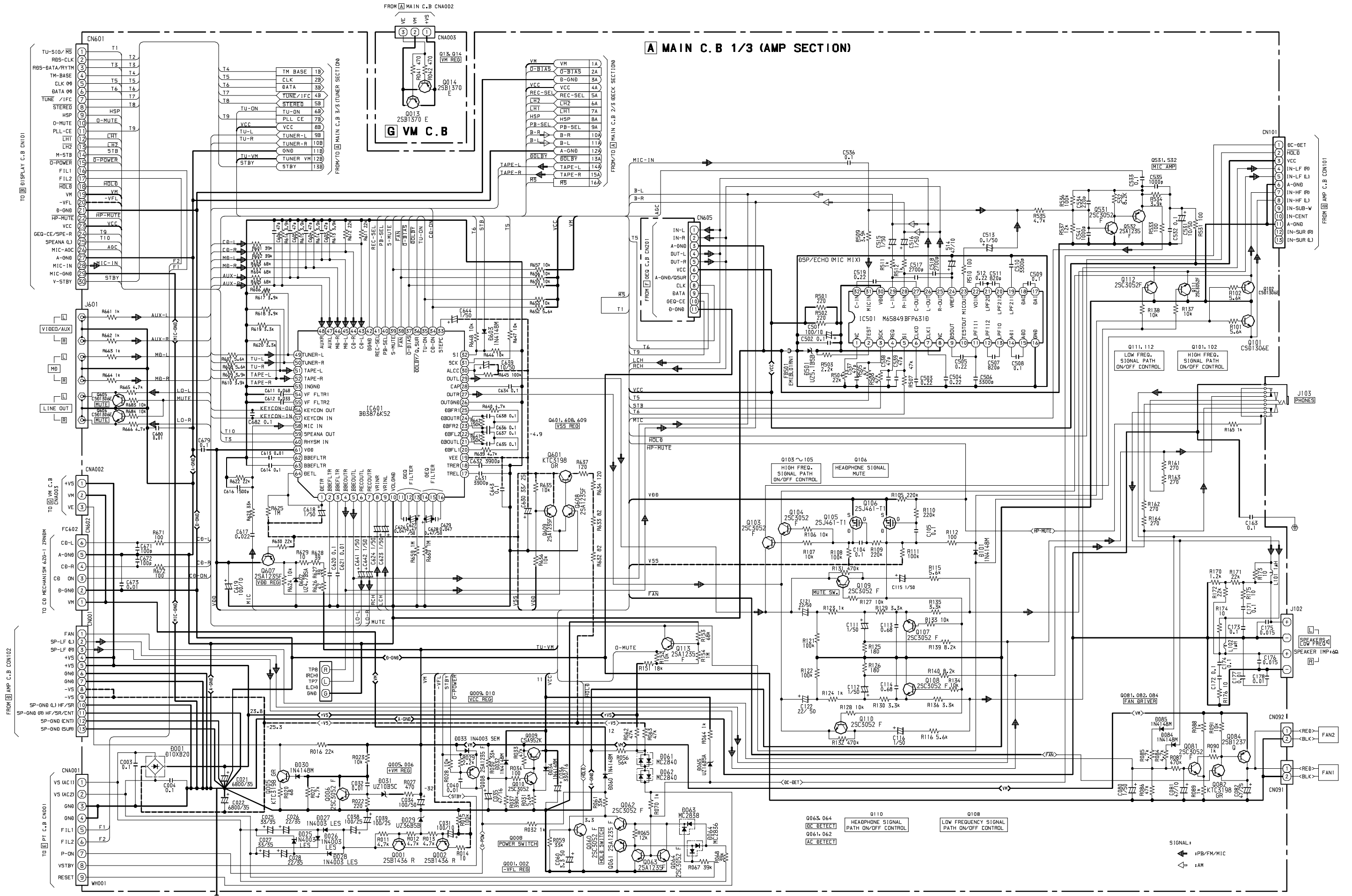
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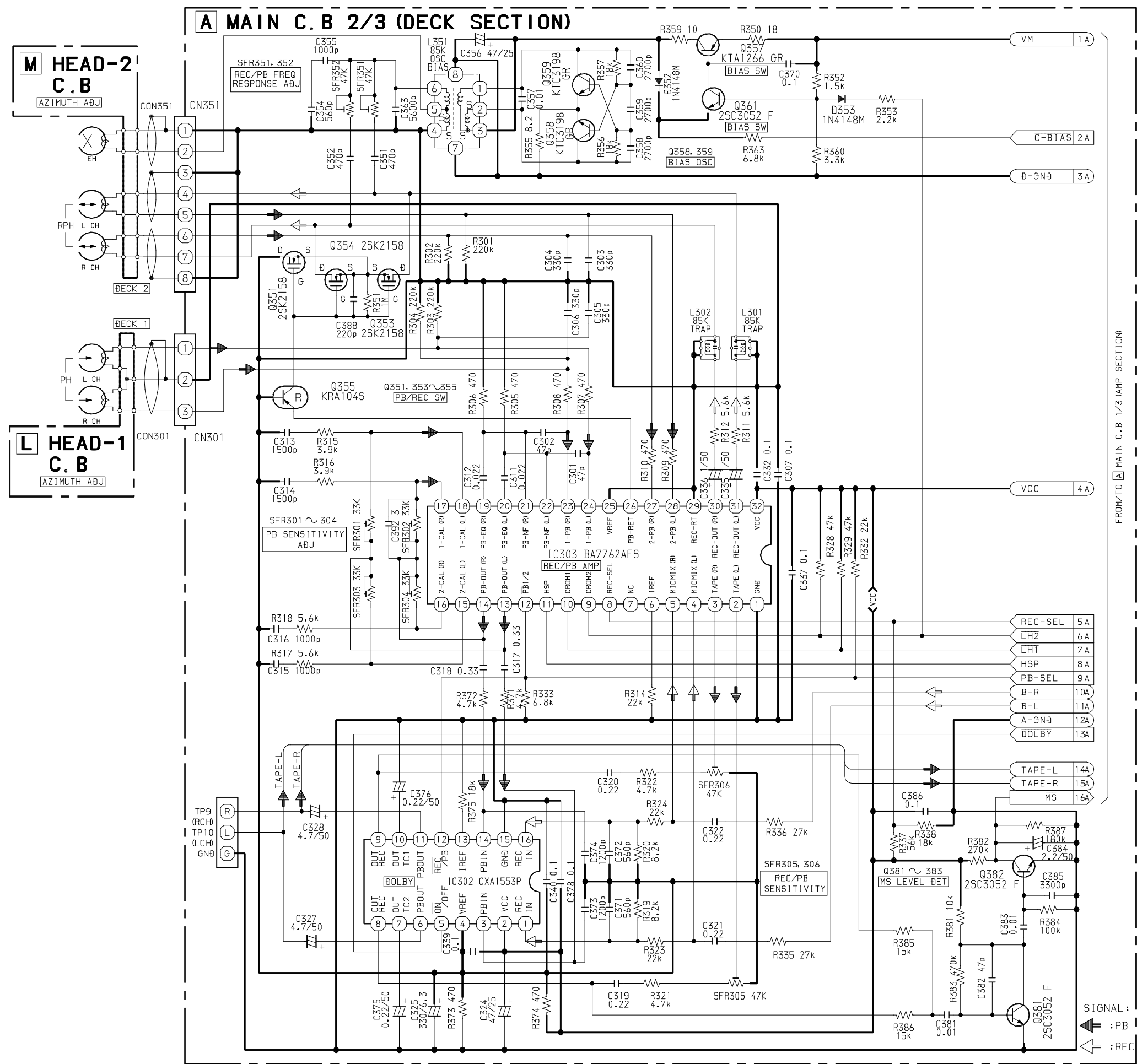
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CSD1306E

DTA143EKA
KRA104S
RT1N141C
RT1P141C
RT1P144C

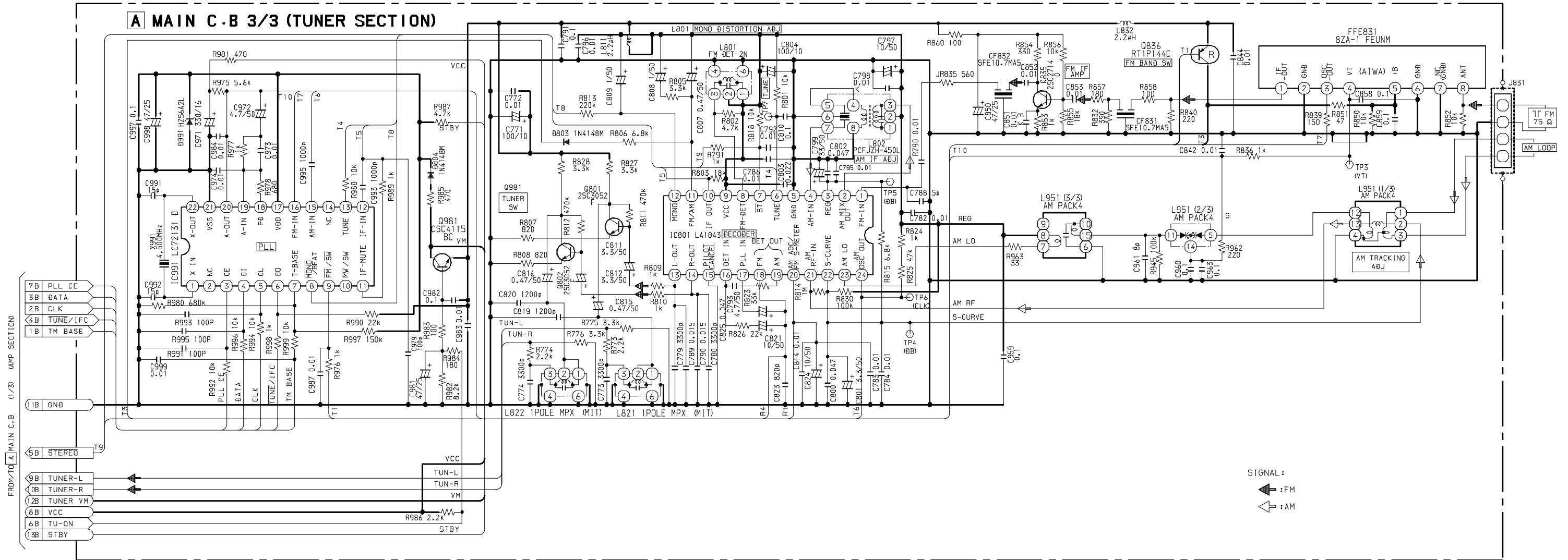


SCHEMATIC DIAGRAM - 1 (MAIN 1 / 3: AMP/VM)

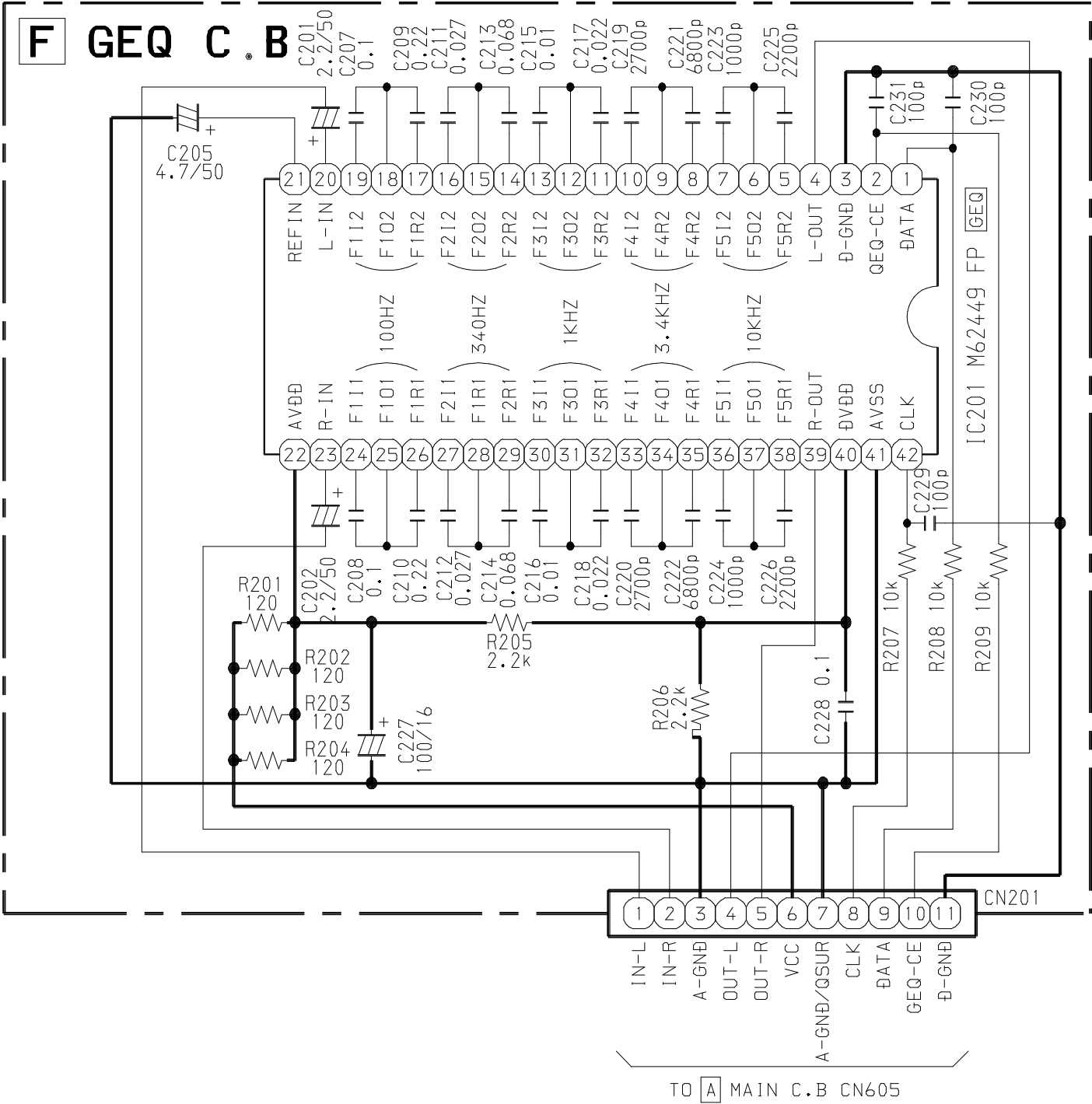


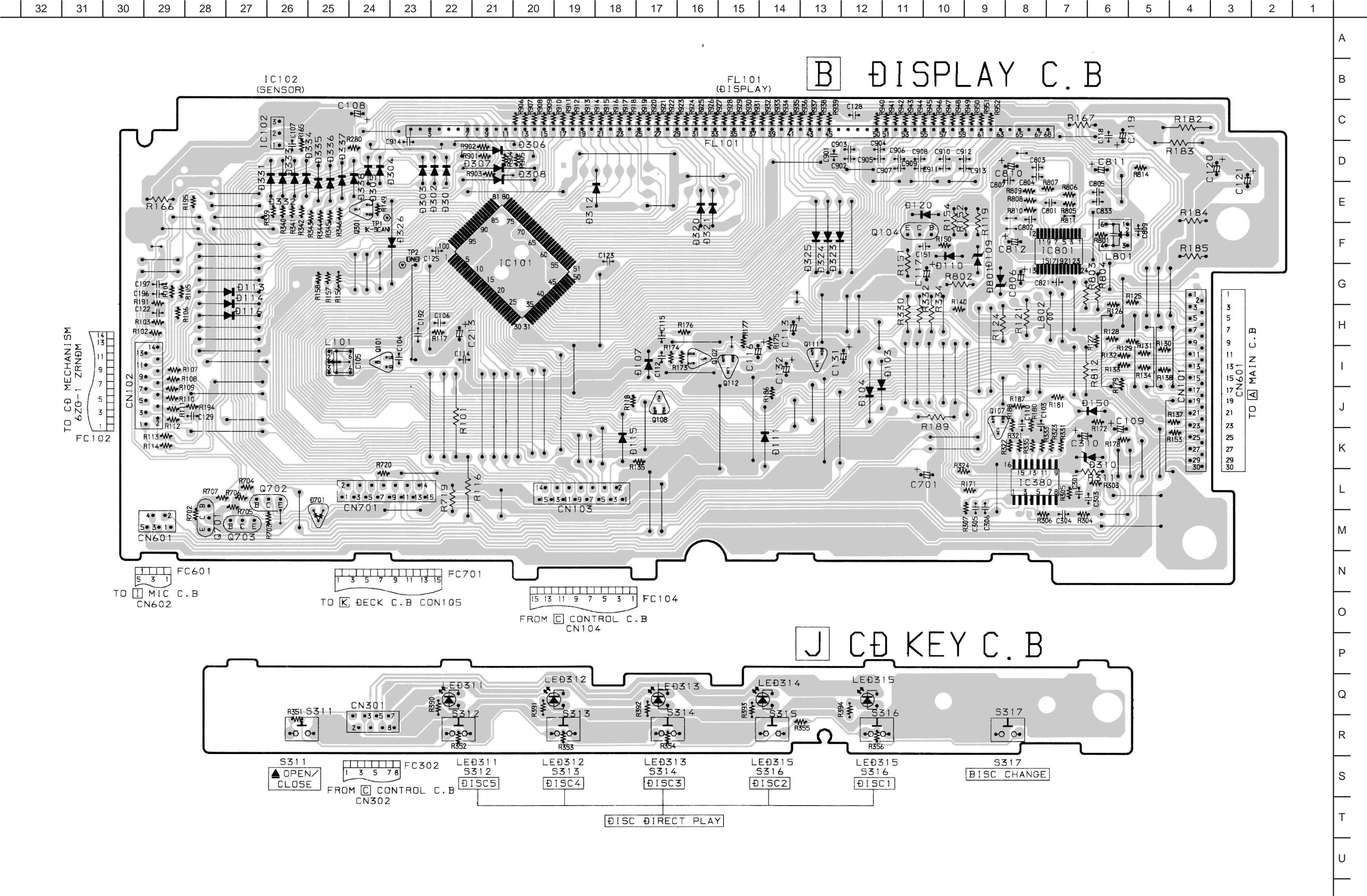


SCHEMATIC DIAGRAM - 3 (MAIN 3 / 3: TUNER)



SCHEMATIC DIAGRAM-4 (GEQ)



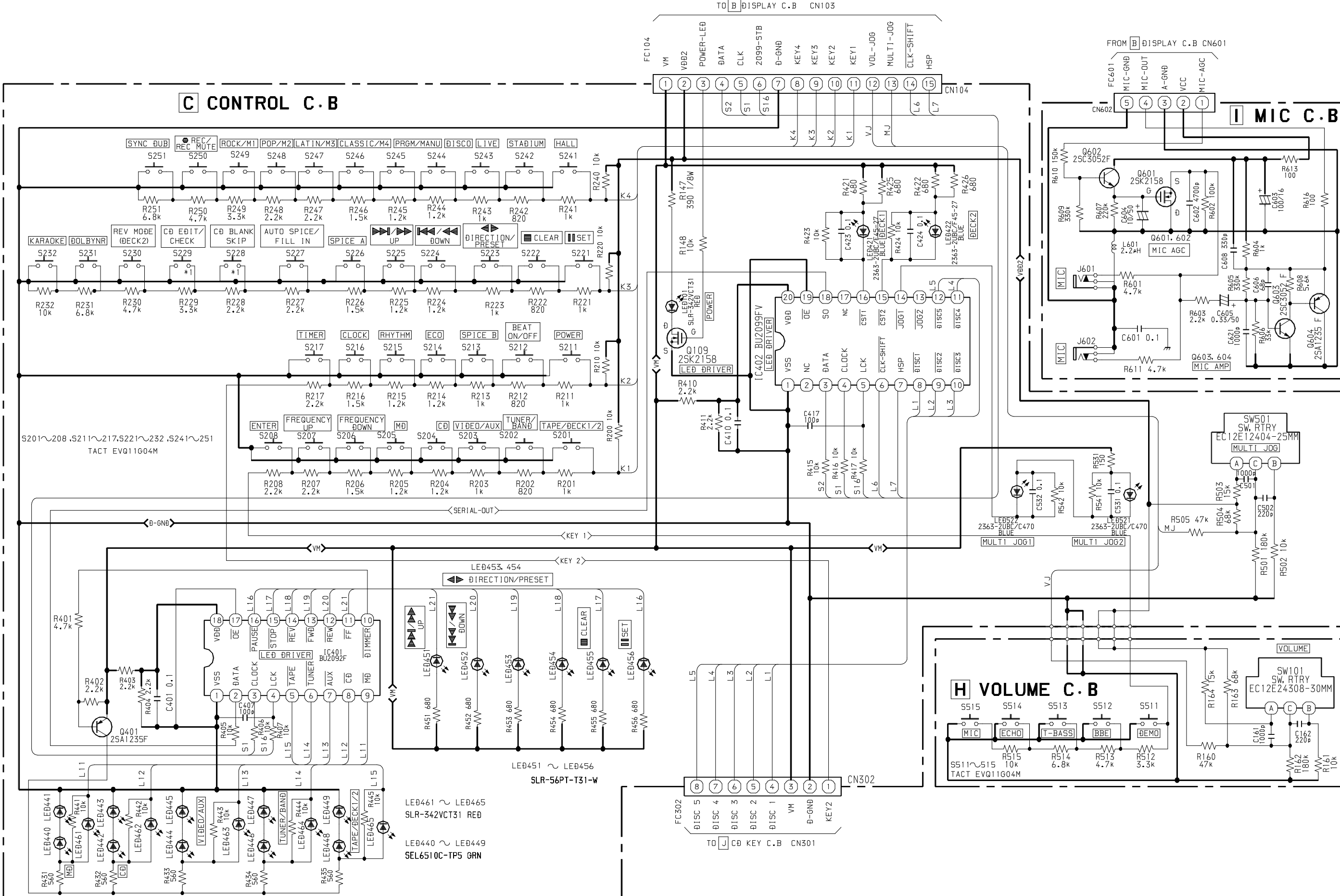


B DISPLAY C.B





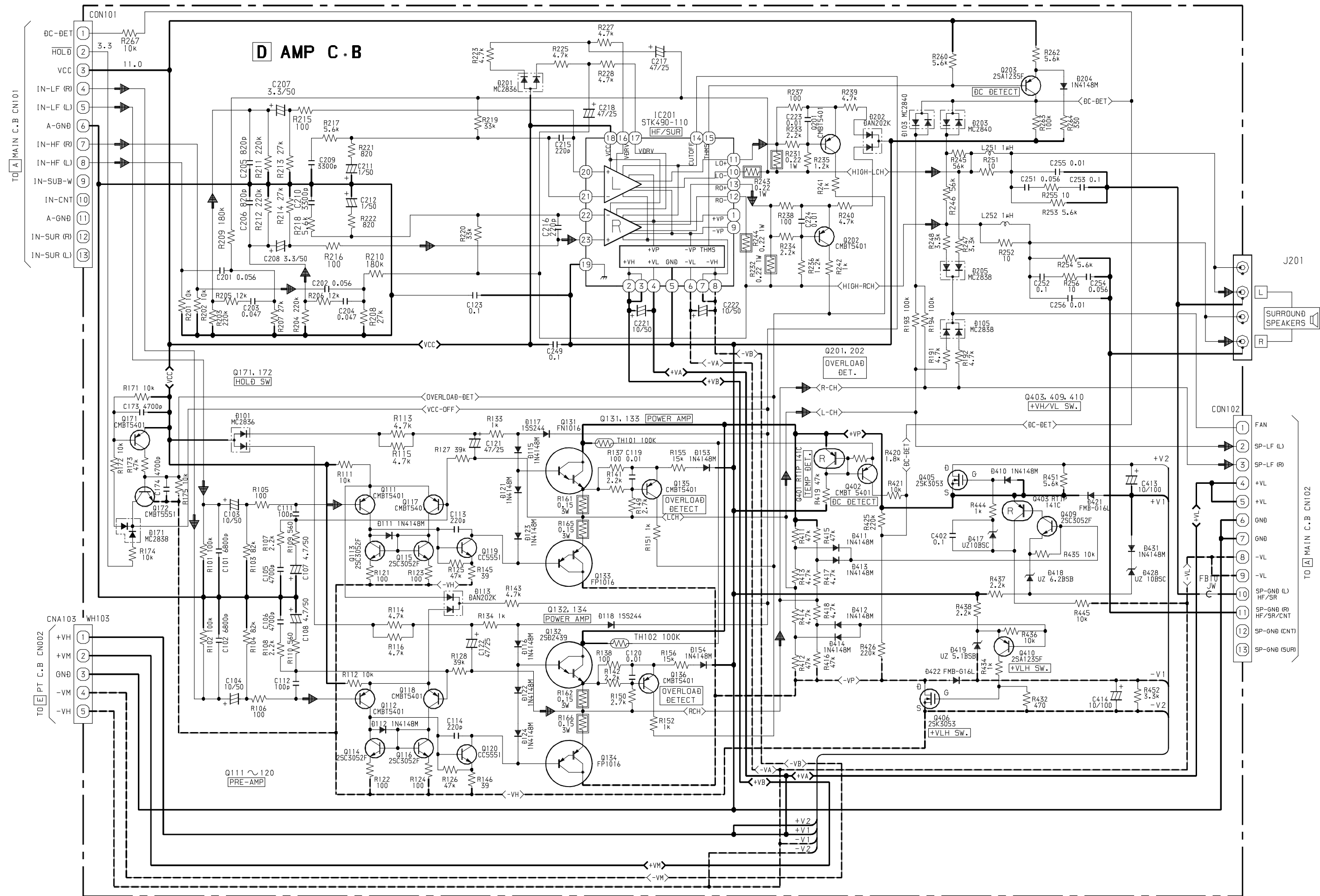
SCHEMATIC DIAGRAM - 6 (CONTROL/ VOLUME/ MIC)

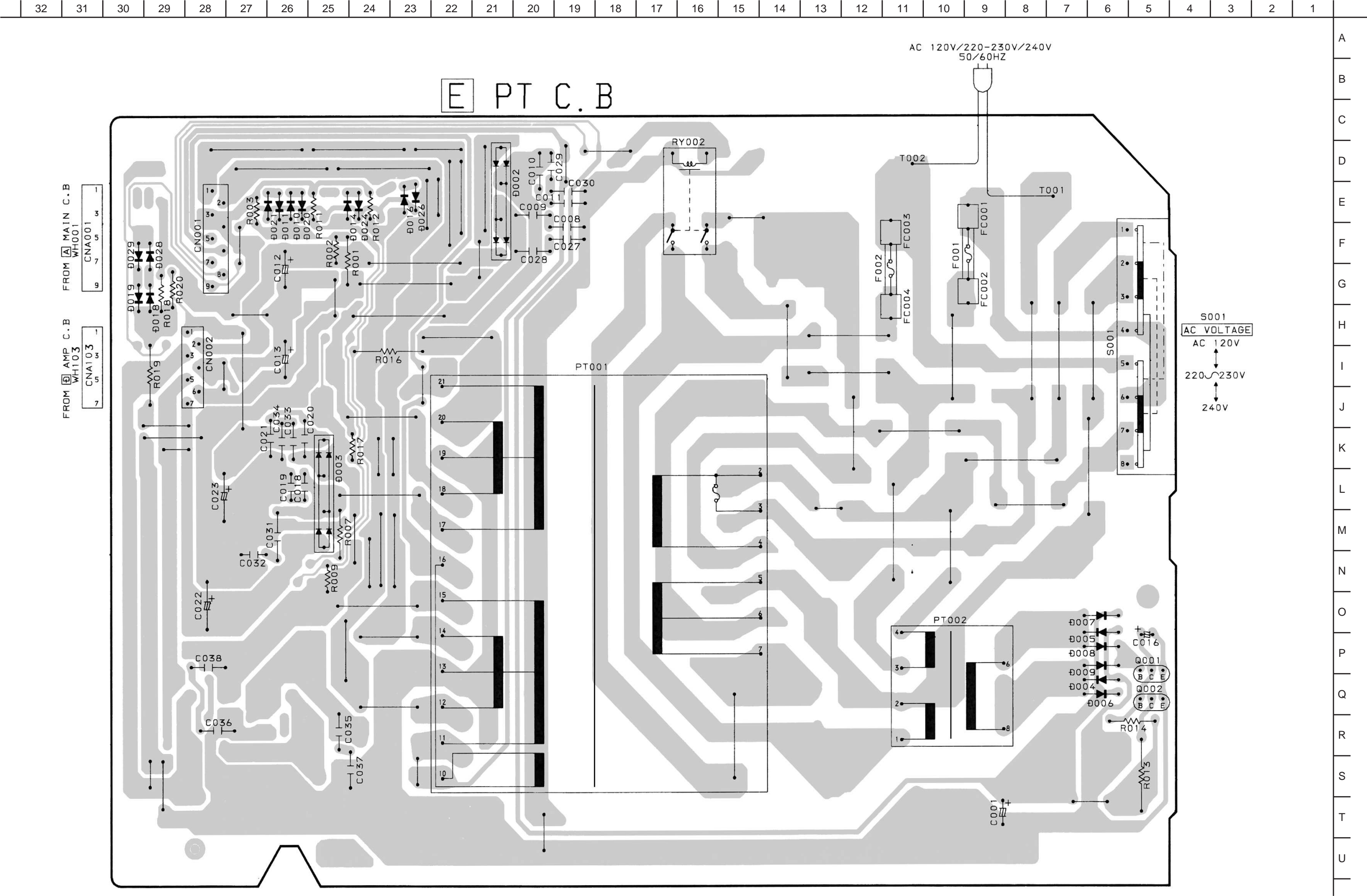


32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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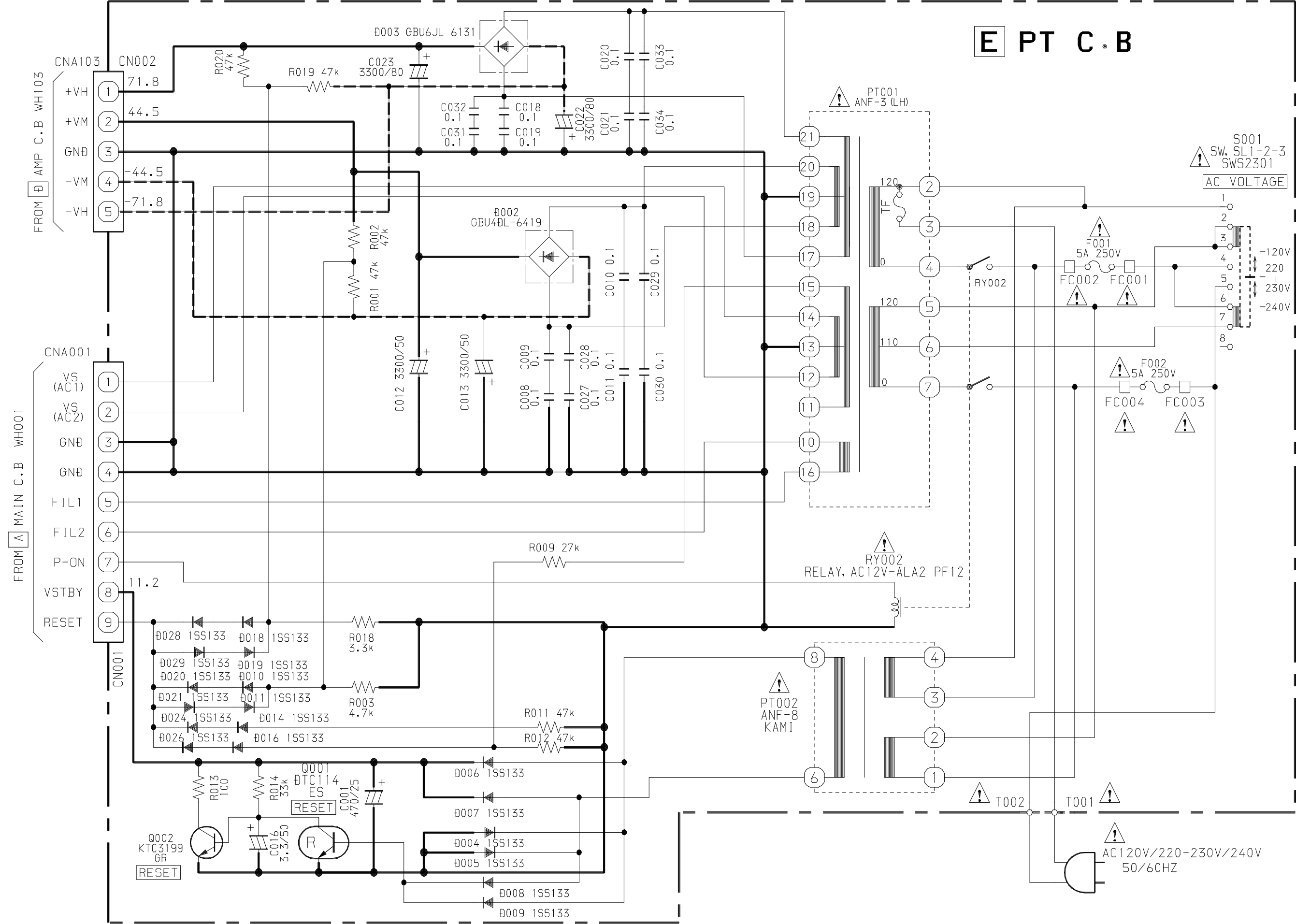


SCHEMATIC DIAGRAM - 7 (AMP)

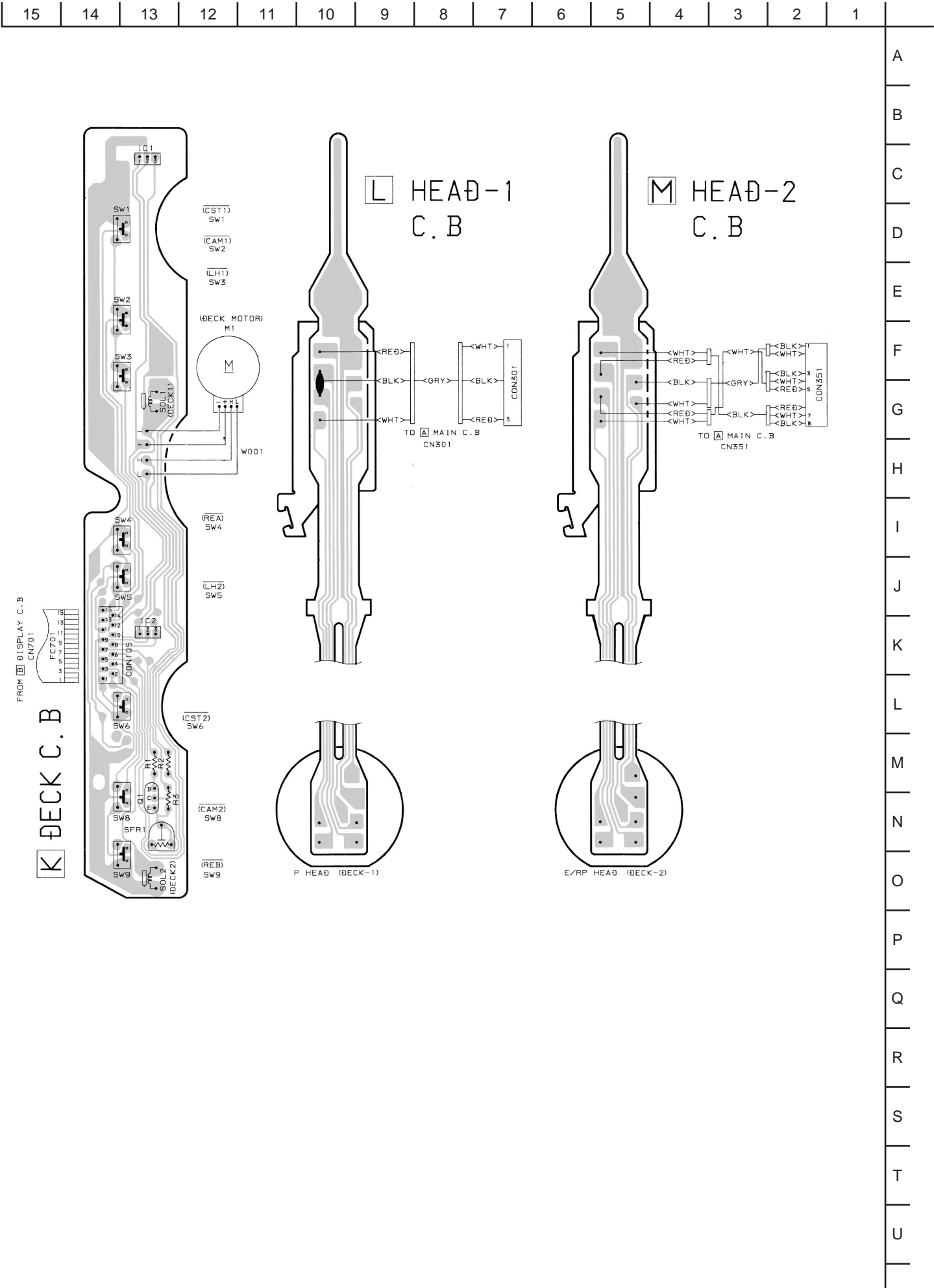




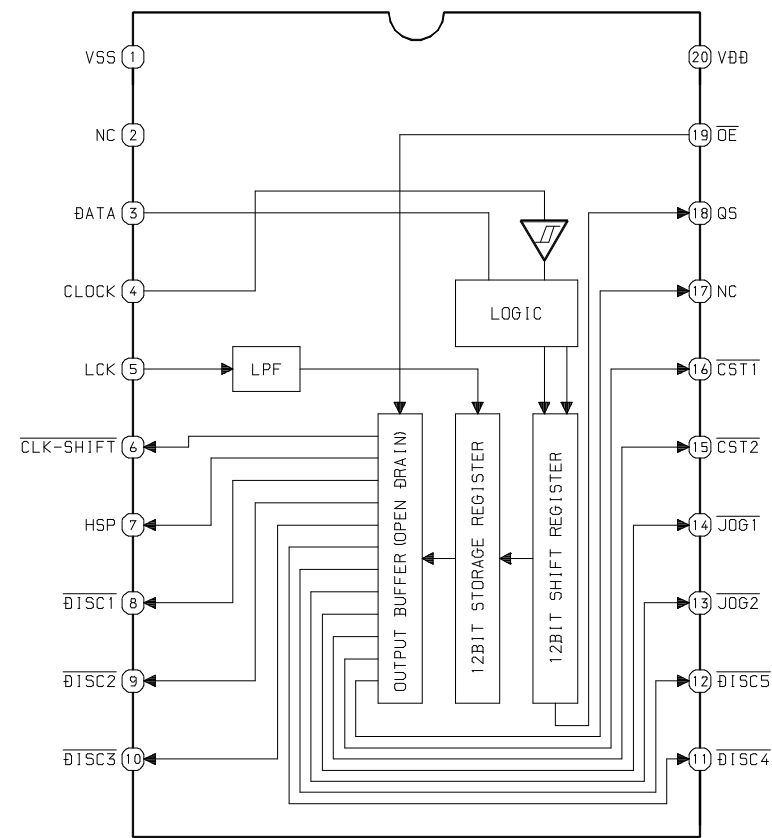
SCHEMATIC DIAGRAM - 8 (PT)



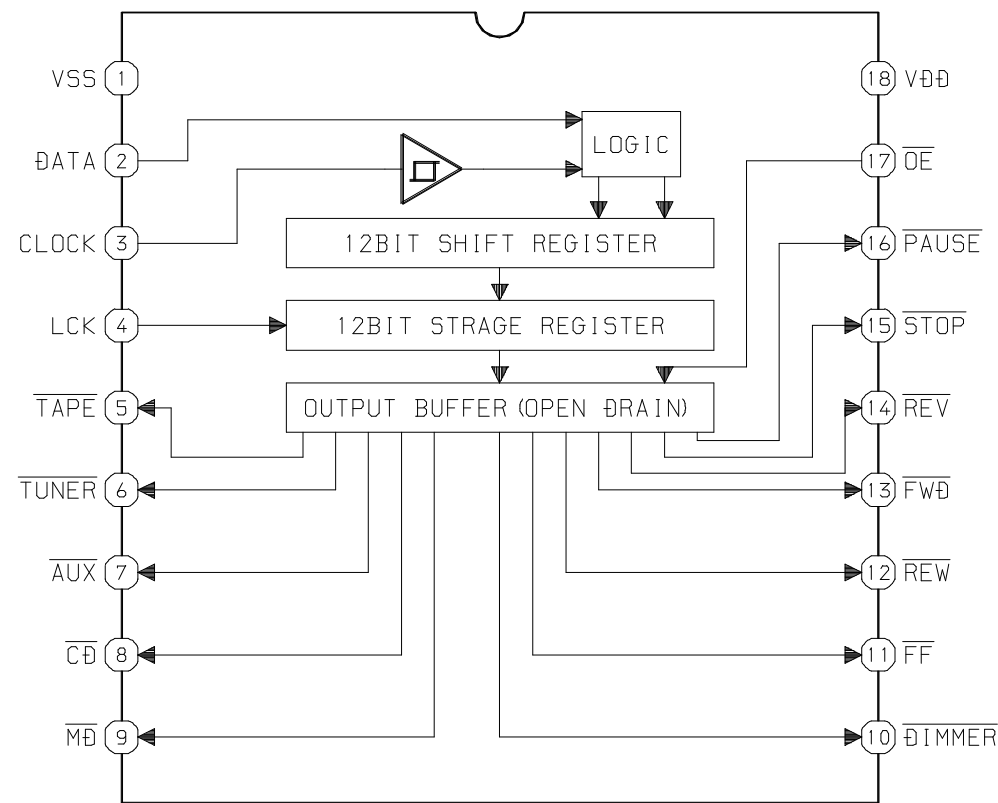
WIRING - 6 (DECK)



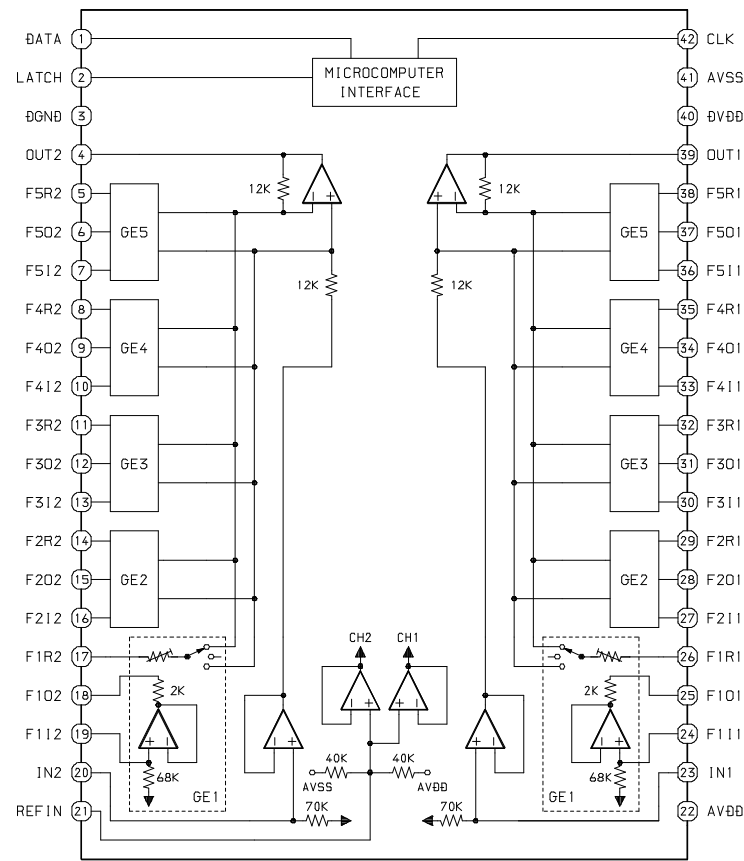
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IC,BU2099FV



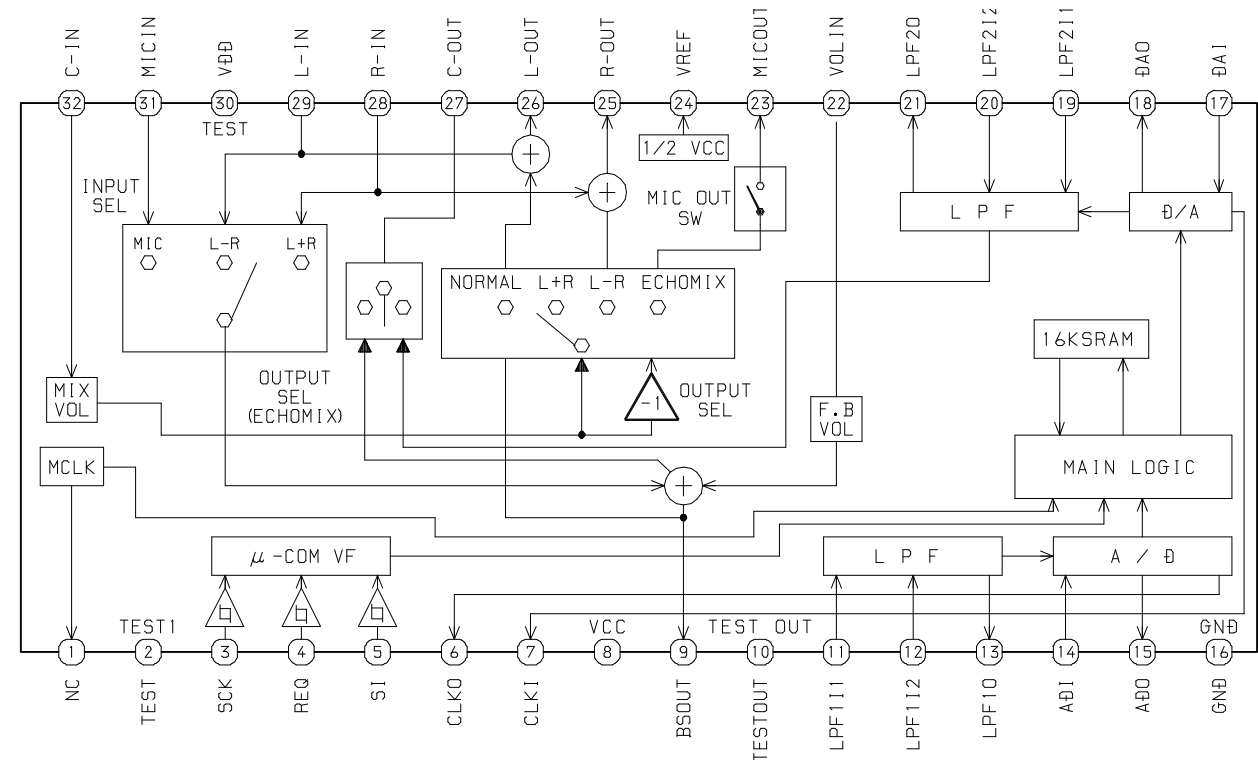
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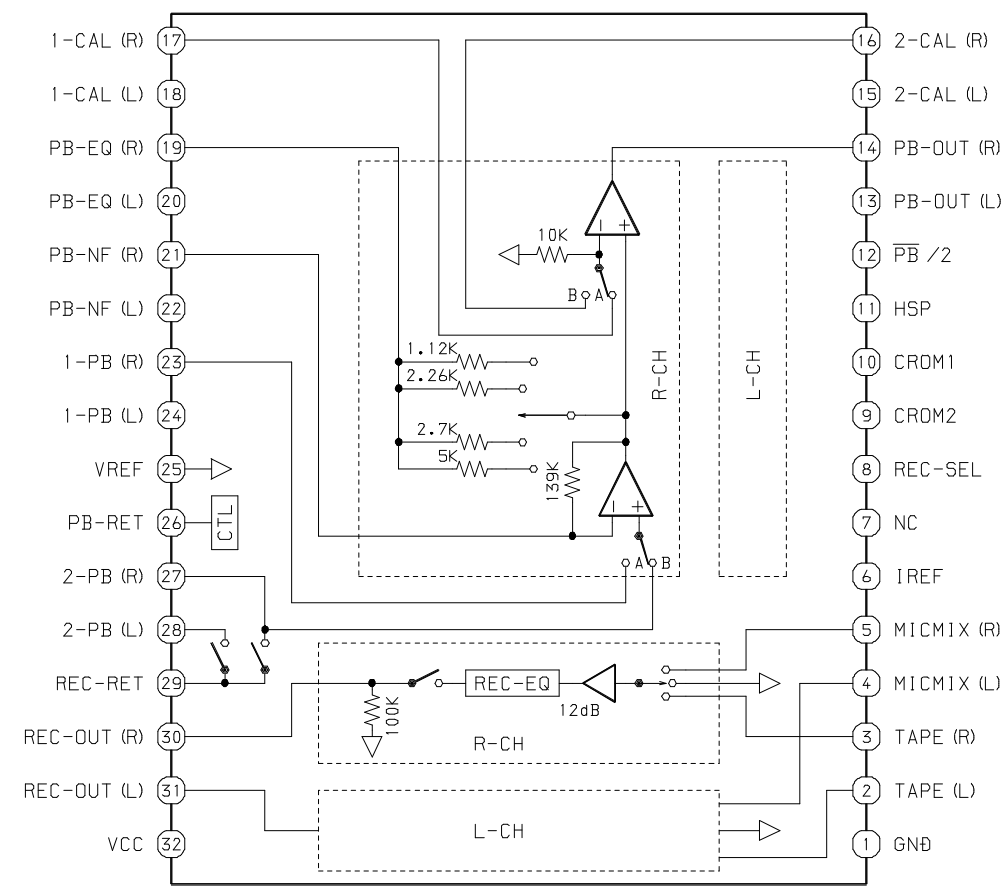
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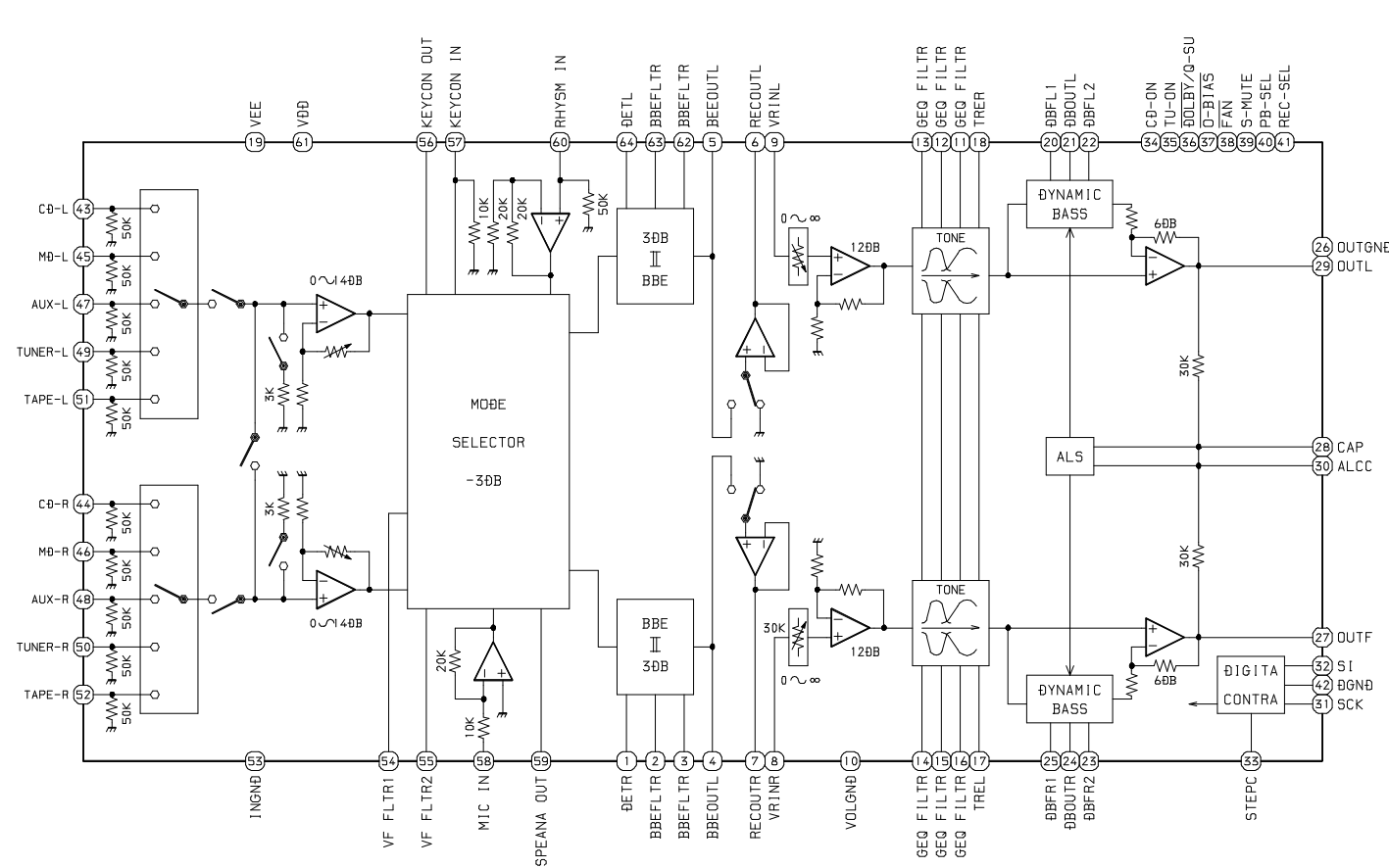
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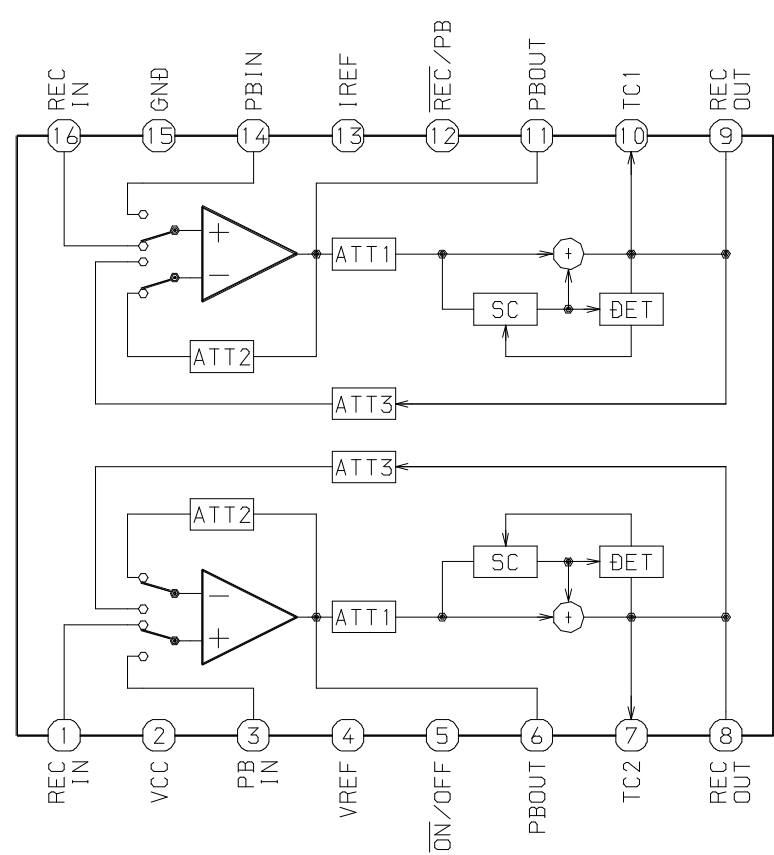
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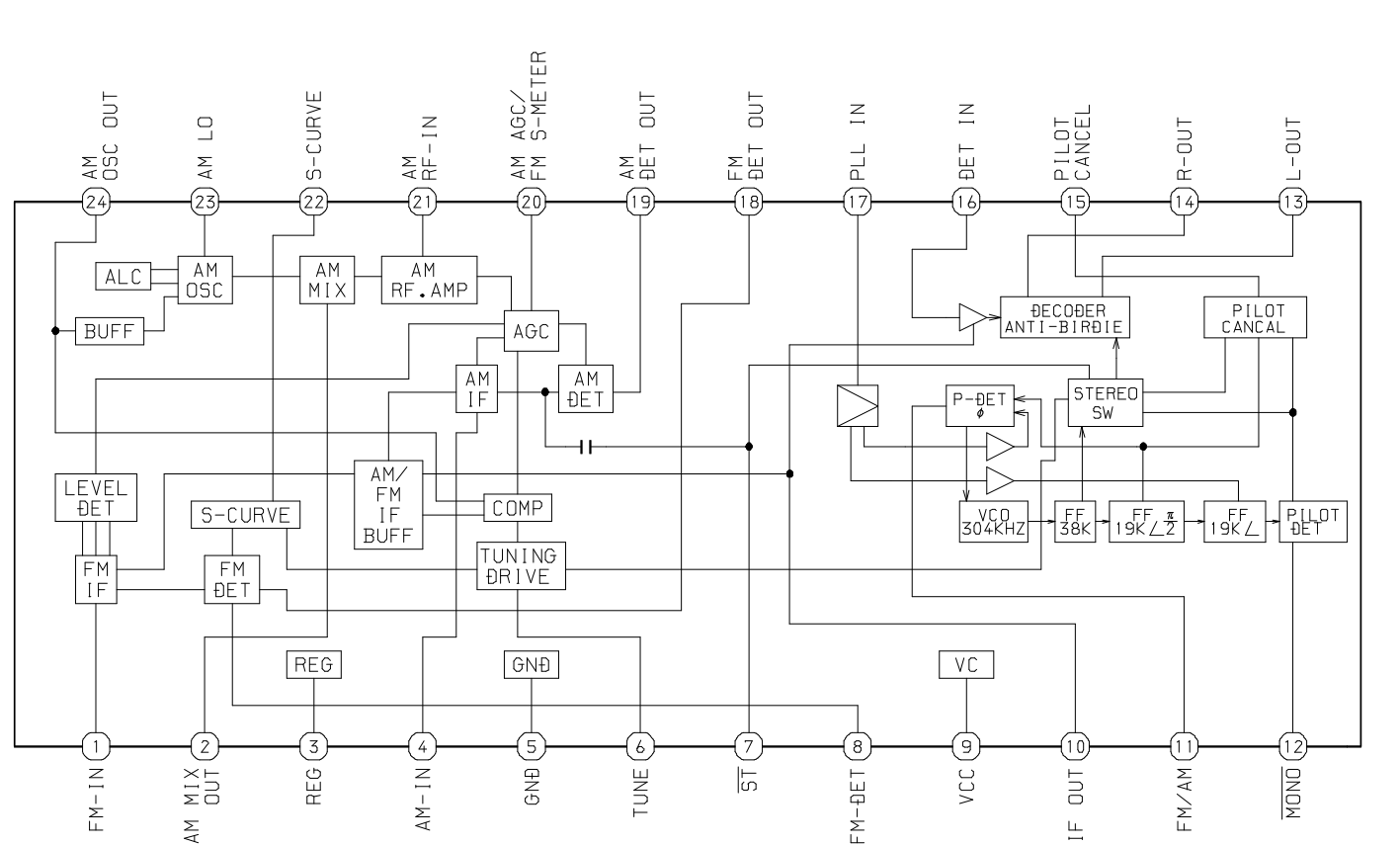
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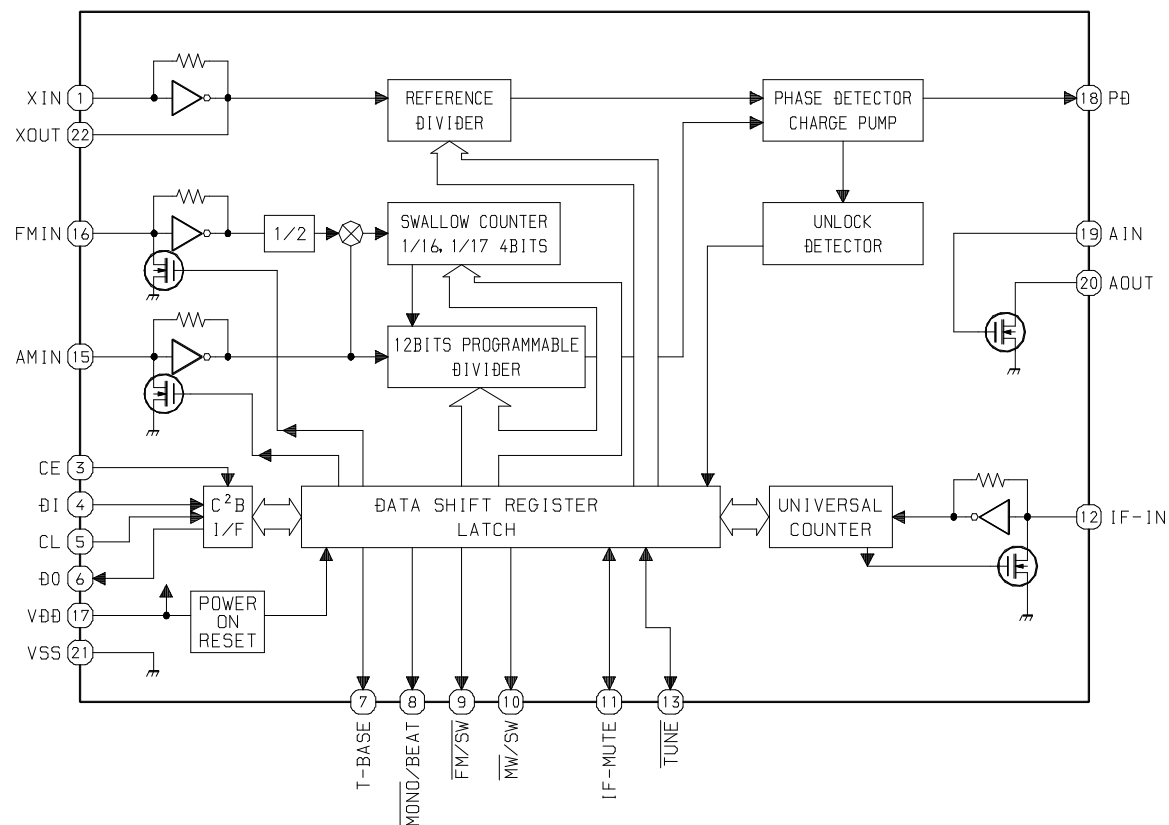
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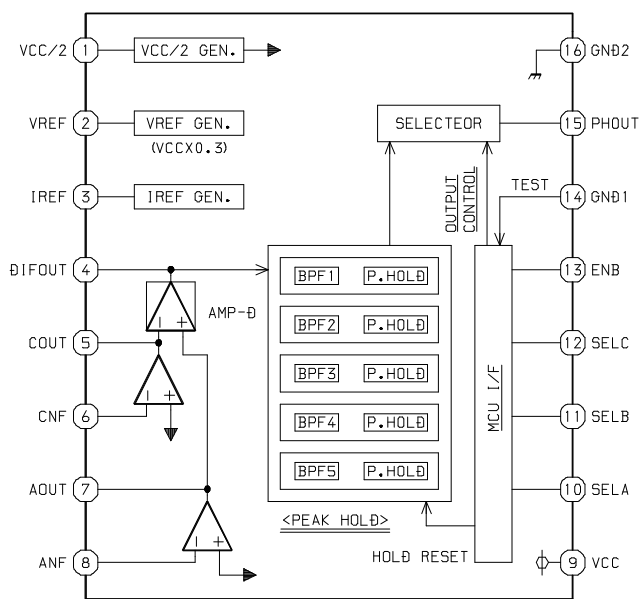
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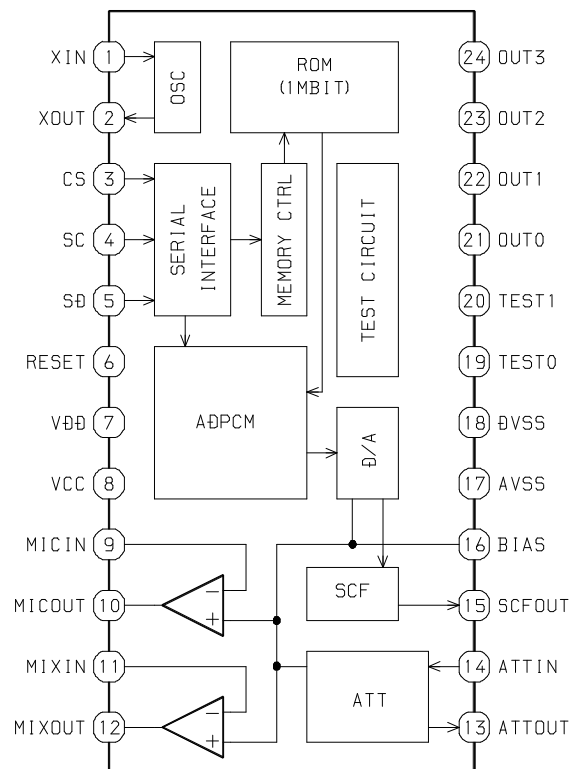
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IC, LC72131D



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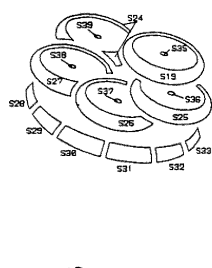
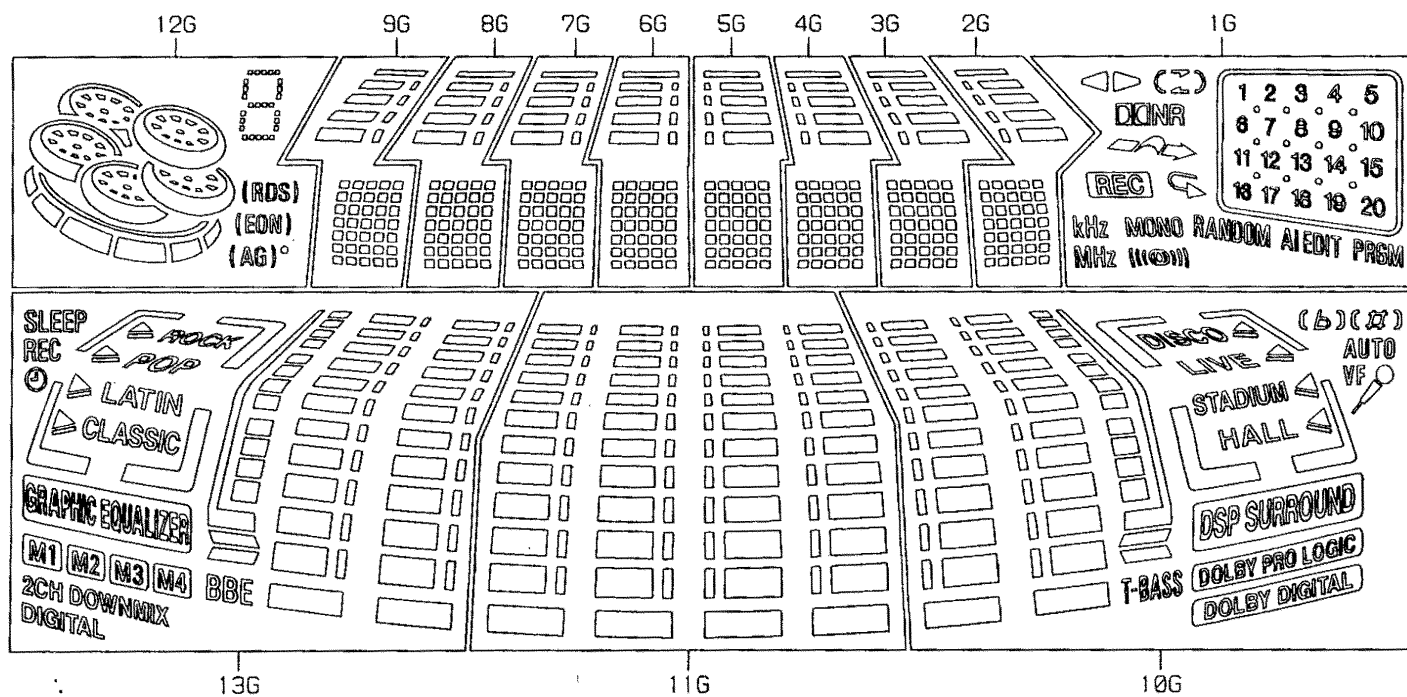


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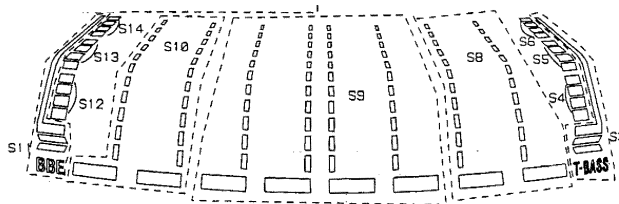


FL (BJ752GK-ANF3) GRID ASSIGNMENT AND ANODE CONNECTION

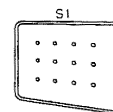
GRID ASSIGNMENT



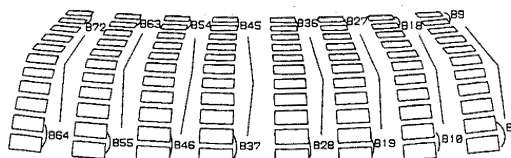
(12G)



(13G, 11G, 10G)



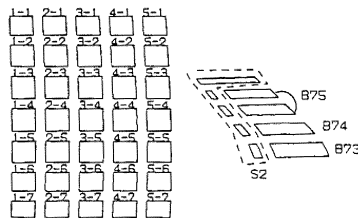
(1G)



(9G~2G)



(13G)



(10G)

ANODE CONNECTION

	13G	12G	11G	10G	9G~2G	1G
P1	S10	○	S9	S8	5-7	S1
P2	B72	() (AG)	B54	B18	4-7	PRGM
P3	B63	AG	B45	B9	3-7	AI
P4	B71	() (EON)	B36	B17	2-7	EDIT
P5	B62	EON	B27	B8	1-7	RANDOM
P6	B70	() (RDS)	B53	B16	5-6	MONO
P7	B61	RDS	B44	B7	4-6	MONO
P8	B69	S33	B35	B15	3-6	MHz
P9	B60	S32	B26	B6	2-6	kHz
P10	B68	S31	B52	B14	1-6)
P11	B59	S30	B43	B5	5-5	1
P12	B67	S29	B34	B13	4-5	C
P13	B58	S28	B25	B4	3-5	↩
P14	B66	S34	B51	B12	2-5	⋈
P15	B57	S26	B42	B3	1-5	REC
P16	B65	S25	B33	B11	5-4	DCNR
P17	B56	S20	B24	B2	4-4	▶
P18	B64	S36	B50	B10	3-4	◀
P19	B55	S21	B41	B1	2-4	1
P20	S14	S37	B32	S6	1-4	2
P21	S13	S27	B23	S5	5-3	3
P22	S12	S22	B49	S4	4-3	4
P23	S11	S38	B40	S3	3-3	5
P24	S15	S24	B31	S7	2-3	6
P25	△ (ROCK)	S23	B22	△ (DISCO)	1-3	7
P26	△ (POP)	S39	B48	△ (LIVE)	5-2	8
P27	△ (LATIN)	S19	B39	△ (STADIUM)	4-2	9
P28	△ (CLASSIC)	S35	B30	△ (HALL)	3-2	10
P29	SLEEP	S16	B21	() (b)	2-2	11
P30	REC	S17	B47	() (#)	1-2	12
P31	Ⓢ	S18	B38	b &	5-1	13
P32	M1	d	B29	AUTO	4-1	14
P33	M2	e	B20	VF	3-1	15
P34	M3	c	B46	DOLBY PRO LOGIC	2-1	16
P35	M4	g	B37	DOLBY DIGITAL	1-1	17
P36	2CH DOWNMIX	f	B28	-	B73	18
P37	DIGITAL	b	B19	-	B74	19
P38	-	a	-	-	B75	20
P39	-	-	-	-	S2	-

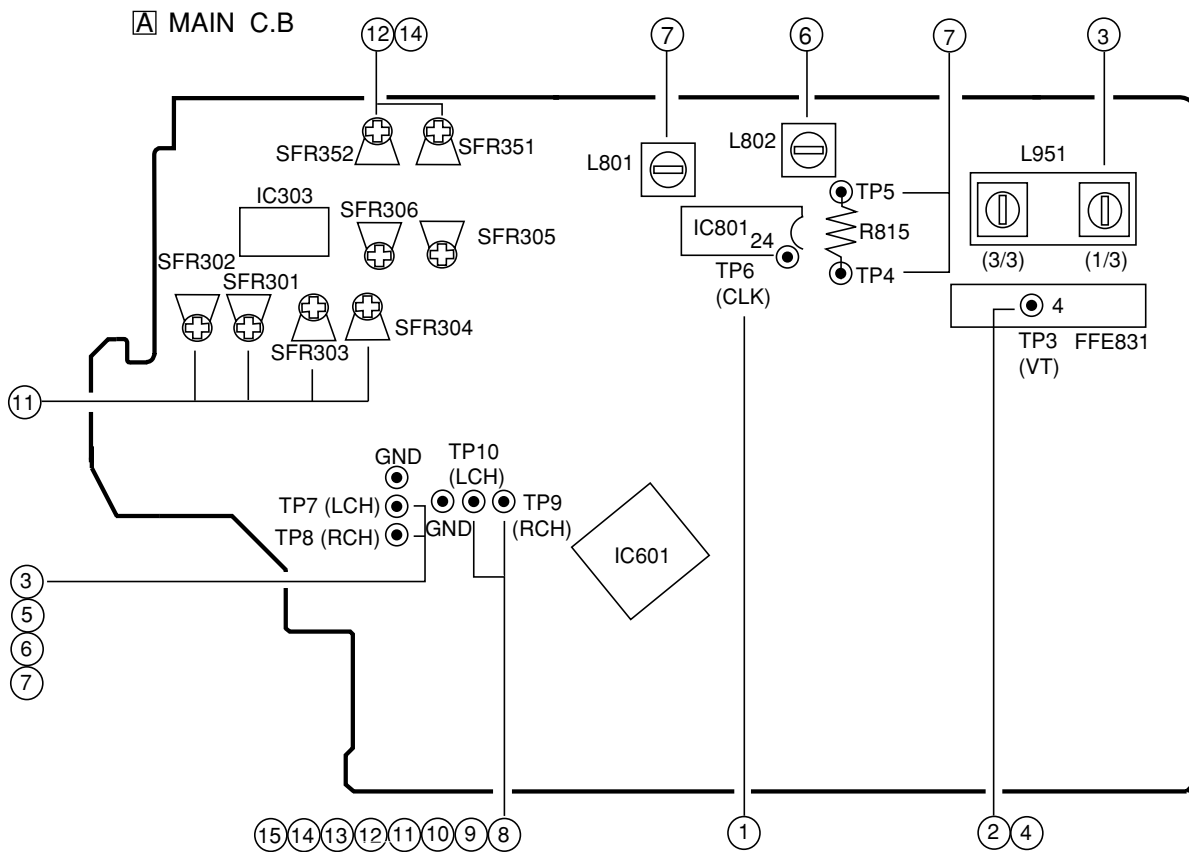
IC DESCRIPTION

IC, LC876596W-5P43

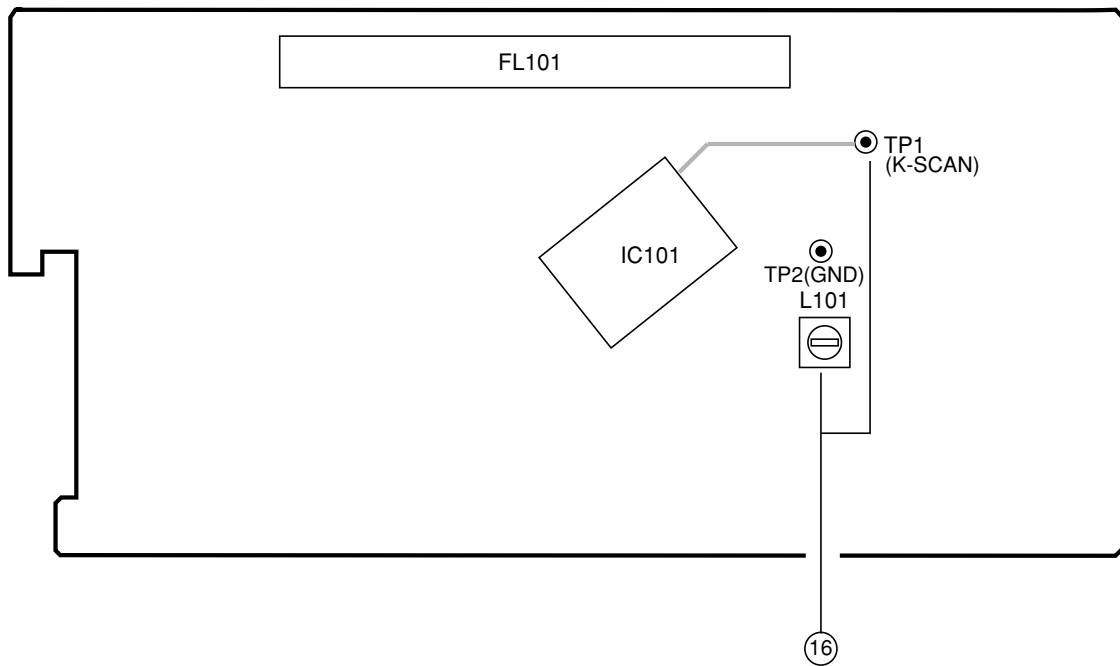
Pin No.	Pin Name	I/O	Description
1	CLK	O	Common serial CLOCK output.
2	DATA	O	Common Serial DATA output.
3	STB	O	Common serial STROBE output.
4	CS-RHYTHM	O	Rhythm IC chip select output.
5	GEQ-CE	O	GEQ IC chip enable output.
6	$\overline{\text{HP-MUTE}}$	I	Headphone plug-in detect input. (Output "L" at HOLD)
7	O-POWER	O	System power ON/ $\overline{\text{OFF}}$ output. (Active "H")
8	PLL-CE	O	Tuner PLL IC chip enable output.
9	O-MUTE	O	System mute ON/ $\overline{\text{OFF}}$ output.
10	I-MIC	I	Auto-VF MIC level special A/D input. (Output "L" at HOLD)
11	$\overline{\text{RESET}}$	I	Reset input.
12	VOL-JOG	I	Main volume JOG rotary encoder A/D input.
13	MULTI-JOG	I	MULTI JOG rotary encoder A/D input.
14	VSS1	–	Connected to GND.
15	CF 1	–	9.43MHz oscillator circuit.
16	CF2		
17	VDD1	–	Power supply.
18	$\overline{\text{HOLD}}$	I	Power supply voltage detect A/D input.
19 ~ 22	KEY 1 ~ 4	I	KEY 1 ~ 4 A/D input. (Output "L" at HOLD)
23	I-CDSW	I	CD mechanism SW A/D input. (Output "L" at HOLD)
24	I-DISH	I	CD turntable photo sensor A/D input. (Output "L" at HOLD)
25	I-SPEANA	I	SPEANA level A/D input. (Output "L" at HOLD)
26	I-RDCLK/I-WRQ	I	TUNER RDS IC CLK input(not used) / CD WRQ input. (Output "L" at HOLD&INI)
27	I-TU-SIG/ $\overline{\text{MS}}$	I	Tuner tuning signal level A/D input / Deck MS SENS. (Output "L" at HOLD)
28	I-TMBASE	I	Timebase clock (8Hz) input. (Output "L" at HOLD)
29	$\overline{\text{I-RMC}}$	I	Remote control signal input. Active: "L". (Output "L" at HOLD)
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P39 ~ P37	O	FL segment P39 ~ P37 output.
46	VDD3	–	Power supply.
47	P36/SPEANA A	O	FL segment P36 output / SPEANA band select output (A) .
48	P35/SPEANA B	O	FL segment P35 output / SPEANA band select output (B) .
49	P34/SPEANA C	O	FL segment P34 output / SPEANA band select output (C).
50	P33	O	FL segment P33 output.
51	VP	–	Power supply for FL.
52 ~ 59	P32 ~ P25	O	FL segment P32~ P25 output.
60	P24/NO AC-DEMO	I/O	FL segment P24 output / NO AC-DEMO at AC-IN diode input. (No store DEMO mode.)
61	P23/CASINO-DEMO	I/O	FL segment P23 output / CASINO-DEMO select diode input.
62	P22/NO-ECO	I/O	FL segment P22 output / NO-ECO select input.
63	P21/NO-RHYTHM	I/O	FL segment P21 output / NO-RHYTHM select diode input(not used).
64	P20/AC3-DPL	I/O	FL segment P20 output / AC3-DPL select diode input(not used).

Pin No.	Pin Name	I/O	Description
65	P19/K-CON	I/O	FL segment P19 output / K-CON select diode input(not used).
66	P18/RDS	I/O	FL segment P18 output / RDS select diode input(not used).
67	P17/FM1	I/O	FL segment P17 output / FM1 select diode input(not used).
68	P16/SW	I/O	FL segment P16 output / SW step initial diode input(not used).
69	P15/LW	I/O	FL segment P15output / LW stereo select diode input(not used).
70	P14/AM-10K	I/O	FL segment P14 output /AM-10K select diode input(not used).
71	P13/AM-ST	I/O	FL segment P13 output / AM-ST select diode input(not used).
72	VDD4	–	Power supply.
73~76	P12~P9	O	FL segment P12~P9 output.
77	P8/ $\overline{\text{RE}}\text{A}$	I/O	FL segment P8 ouput / REC enable (A) switch input (active: "L").
78	P7/ $\overline{\text{CST}}1$	I/O	FL segment P7 output / Cassette (1) switch.
79	P6/ $\overline{\text{CAM}}1$	I/O	FL segment P6 output / CAM (1) switch input (active: "L").
80	P5/AUTO2	I/O	FL segment P5 output / Auto stop reel (2) pulse input.
81	P4/AUTO1	I/O	FL segment P4 output / Auto stop reel (1) pulse input.
82	P3/ $\overline{\text{CAM}}2$	I/O	FL segment P3 output / CAM (2) switch input. (active:"L").
83	P2/ $\overline{\text{RE}}\text{B}$	I/O	FL segment P2 output / REC enable (B) switch input. (active:"L").
84	P1/ $\overline{\text{CST}}2$	I/O	FL segment P1 output / Cassette (2) switch input. (active:"L").
85	$\overline{\text{K-SCAN}}$	O	Key scan output. (active:"L").
86	$\overline{\text{SOL}}1$	O	DECK (1) solenoid $\overline{\text{ON}}$ /OFF output.
87	$\overline{\text{SOL}}2$	O	DECK (2) solenoid $\overline{\text{ON}}$ /OFF output.
88	$\overline{\text{O-MOTOR}}$	O	Deck motor $\overline{\text{ON}}$ /OFF output .
89	VSS2	–	Connected to GND.
90	VDD2	–	Power supply.
91	O-DISHREV	O	CD turn table dish reverse output.
92	O-DISHFWD	O	CD turn table dish forward output.
93	O-OPEN	O	CD tray open output.
94	O-CLOSE	O	CD tray close output.
95	IFC- $\overline{\text{TU}}$ /I-SQDATA	I	Tuner tune/IF count input (active: "L") / CD SUB-Q data input.
96	$\overline{\text{I-STEREO}}$ /I-DRF (O-CLK-VCD)	I/O	Tuner stereo detect input (active "L") / DRF input.
97	O-DATA(CD)/ I-RDS DATA	I/O	CD IC control data output / Tuner RDS data input(not used).
98	CD-CE/ IO BUSY (VCD)	I/O	CD chip enable output.
99	CLK (CD)	O	CD IC control clock output.
100	STB(SHIFT)	O	Shift register strobe output.

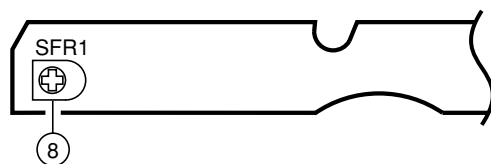
ADJUSTMENT <TUNER/DECK>



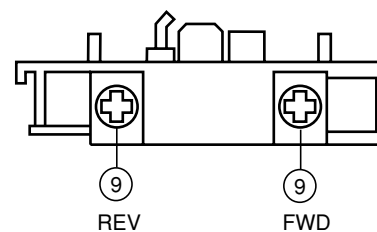
B DISPLAY C.B



K DECK C.B



DECK-1 P, DECK-2 R/P/E HEAD



< TUNER SECTION >

1. Clock Frequency Check
 Settings : • Test point : TP6 (CLK)
 Method : Set to AM 1710kHz and check that the test point is 2160kHz \pm 45Hz.
2. AM VT Check
 Settings : • Test point : TP3 (VT)
 Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V(1710kHz) and more than 0.6V(530kHz)
3. AM Tracking Adjustment
 Settings : • Test point : TP7(Lch), TP8(Rch)
 • Adjustment location : L951(1/3)..... 999kHz
 Method : Set to AM 999kHz and adjust L951(1/3) so that the test point is max.
4. FM VT Check
 Settings : • Test point : TP3 (VT)
 Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
 Set to FM 87.5MHz and check that the test point is more than 0.5V.
5. FM Tracking Check
 Settings : • Test point : TP7(Lch), TP8(Rch)
 Method : Set to FM 98.0MHz and check that the test point is less than 9.0dB μ V.
6. AM IF Adjustment
 Settings : • Test point : TP7(Lch), TP8(Rch)
 • Adjustment location : L802
 • Input level : Variable
 Method : Adjust L802 so that the output becomes max.
7. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP4, TP5 (DC Balance)
 TP7(Lch), TP8(Rch) (Distortion)
 • Adjustment location : L801
 • Input level : 60dB μ V
 Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP4 and TP5 becomes 0V \pm 0.04V.
 Next, check that the distortion is less than 1.3%

< DECK SECTION >

8. Tape Speed Adjustment (DECK 1, DECK 2)
 Settings : • Test tape : TTA-100(3kHz)
 • Test point : TP9(Rch), TP10(Lch)
 • Adjustment location : SFR1
 Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz \pm 5Hz(FWD) and \pm 45Hz(REV) with respect to forward speed.

9. Head Azimuth Adjustment (DECK 1, DECK 2)
 Settings : • Test tape : TTA-300 (315/10kHz)
 • Test point : TP9(Rch), TP10(Lch)
 • Adjustment location : Head azimuth adjustment screw
 Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.
10. PB Frequency Response Check (DECK 1, DECK 2)
 Settings : • Test tape : TTA-300 (315/10kHz)
 • Test point : TP9(Rch), TP10(Lch)
 Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 0 \pm 2dB.
11. PB Sensitivity Adjustment (DECK 1, DECK 2)
 Settings : • Test tape : TTA-200 (400Hz)
 • Test point : TP9(Rch), TP10(Lch)
 • Adjustment location : SFR301 (DECK 1, Lch)
 SFR302 (DECK 1, Rch)
 SFR303 (DECK 2, Lch)
 SFR304 (DECK 2, Rch)
 Method : Play back the test tape and adjust SFRs so that the output level of the test points become 245mV \pm 10mV.
12. REC/PB Frequency Response Adjustment (DECK 2)
 Settings : • Test tape : TTA-602 (Normal)
 • Test point : TP9(Rch), TP10(Lch)
 • Input signal : 1kHz / 10kHz (LINE IN)
 • Adjustment location : SFR351 (Lch)
 SFR352 (Rch)
 Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 12.5mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes 0dB \pm 0.5dB with respect to that of the 1kHz signal.
13. REC/PB Frequency response Check (DECK 2)
 Settings : • Test tape : TTA-615 (CrO₂)
 • Test point : TP9(Rch), TP10(Lch)
 • Input signal : 1kHz/10kHz (LINE IN)
 Method : Apply a 1kHz signal and REC mode. Then Adjust OSC attenuator so that the output level at the test points becomes 12.5mV. Record and play back the 1kHz and 10kHz signals and check that the output is 0dB \pm 2dB.

14. REC/PB Sensitivity Adjustment (DECK 2)

Settings : • Test tape : TTA-602 (Normal)
• Test point : TP9(Rch), TP10(Lch)
• Input signal : 1kHz (LINE IN)
• Adjustment location :
SFR305 (Lch)
SFR306 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 125mV. Record the play back the 1kHz signal and adjust SFRs so that the output level becomes 0dB \pm 0.5dB.

15. REC/PB Sensitivity Check (DECK 2)

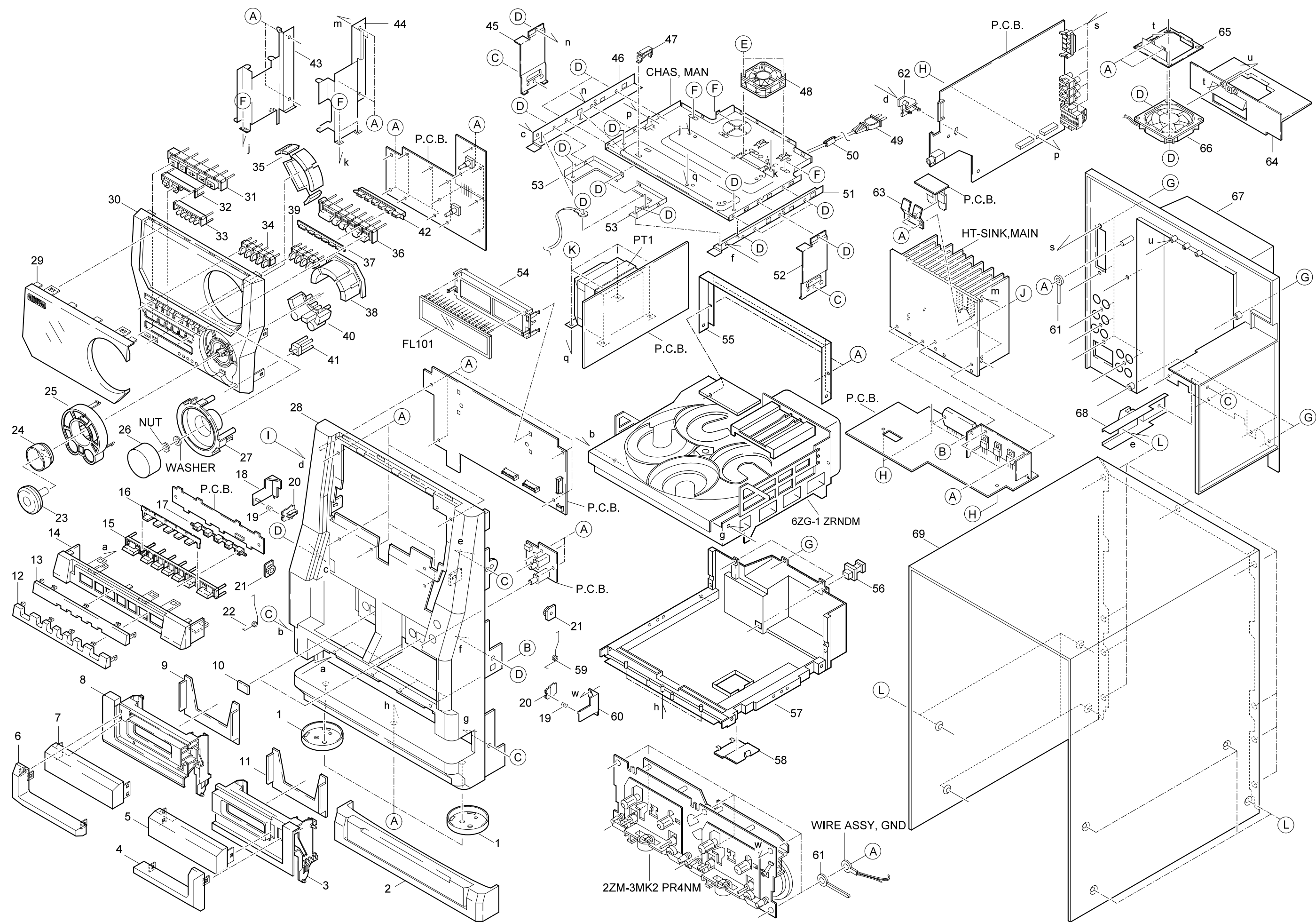
Settings : • Test tape : TTA-615 (CrO₂)
• Test point : TP9(Rch), TP10(Lch)
• Input signal : 1kHz (LINE IN)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 125mV. Record and play back the 1kHz signal and check that the output is 0dB \pm 1.5dB.

16. μ -CON OSC Adjustment

Settings : • Test point : TP1
• Adjustment location : L101

Method : Insert AC plug with pressing TUNER function key.
Adjust L101 so that the frequency across the test point is 208.8Hz \pm 0.2Hz.



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF3-090-010		RING, FOOT	46	8A-NF3-208-010		HLDR, CHAS L
2	8A-NF3-042-010		PANEL ASSY, TRAY	47	87-NF4-221-010		HLDR, CABLE
3	8A-NF3-029-010		BOX, CASS R	48	87-A91-423-010		FAN, AD0612DS-D7OGL
4	8A-NF3-040-010		PANEL, CASS R	△ 49	87-A80-148-010		AC CORD ASSY, E BLK
5	8A-NF3-059-010		WINDOW, CASS R	50	87-085-185-010		BUSHING, AC CORD (E)
6	8A-NF3-039-010		PANEL, CASS L	51	8A-NF3-209-010		HLDR, CHAS R
7	8A-NF3-058-010		WINDOW, CASS L	52	8A-NF3-211-010		HLDR, SIDE R
8	8A-NF3-028-010		BOX, CASS L	53	8A-NF3-229-010		HLDR, BRACKET
9	8A-NF3-090-010		REFLECTOR, CASS L	54	8Z-NF3-210-010		GUIDE, FL
10	81-532-080-010		LABEL, CASS. COMPT	55	8A-NF3-212-010		HLDR, REAR
11	8A-NF3-091-010		REFLECTOR, CASS R	56	84-ZG1-245-210		CAP, OPTICAL
12	8A-NF3-048-010		PANEL, REFLECTOR- CD	57	8A-NF3-026-010		CABI, BOTTOM
13	8A-NF3-049-010		PANEL, KEY-CD	58	8Z-NF3-048-010		COVER, BOTTOM
14	8A-NF3-047-010		PANEL, CD	59	82-NF5-219-010		SPR-T, EJECT 2 (SIN)
15	8A-NF3-071-010		KEY, CD	60	87-NF4-217-110		HLDR, LOCK 2
16	8A-NF3-089-010		REFLECTOR, CD	61	87-064-185-010		HLDR, WIRE
17	8A-NF3-203-010		GUIDE, LED-CD	62	8A-NF8-206-010		HLDR, PWB M
18	87-NF4-216-010		HLDR, LOCK 1	63	8A-NF3-221-010		HLDR, IC-VM
19	86-NF9-224-010		SPR-C, LOCK	64	8A-NF3-225-010		COVER, HLDR
20	82-NF5-229-010		PLATE, LOCK	65	8A-NF3-223-010		HLDR, FAN
21	87-NF8-220-010		DMPR, 150	66	87-A91-711-010		FAN, 3110GL-B4W-B34-H02 -400MM
22	82-NF5-218-010		SPR-T, EJECT 1 (SIN)	67	8A-NF4-011-010		CABI, REAR LHSM
23	8A-NF3-082-010		KNOB, RTRY JOG	68	8A-NF3-228-010		HLDR, PWB-PT
24	8A-NF3-087-010		REFLECTOR, JOG	69	8A-NF3-027-010		CABI, STEEL
25	8A-NF3-077-010		RING, JOG H	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
26	8A-NF3-081-010		KNOB, RTRY VOL	B	87-067-581-010		S-SCREW, BVT2+3-15 W/O SLOT
27	8A-NF3-076-010		RING, VOL	C	87-721-097-410		QT2+3-12 GLD
28	8A-NF3-001-010		CABI, FR	D	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
29	8A-NF4-051-010		WINDOW, DISP	E	87-067-822-010		BVT2+3-20 W/O SLOT
30	8A-NF3-034-010		PANEL, FR LH	F	87-067-689-010		TAPPING SCREW, BVT+3-8
31	8A-NF3-063-010		KEY ASSY, OPE	G	87-067-761-010		S-SCREW, BVT2+3-10 BLK
32	8A-NF3-073-010		KEY, REC U	H	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
33	8A-NF3-065-010		KEY, KARAOKE	I	87-721-096-010		QT2+3-10 W/O SLOT
34	8A-NF3-061-010		KEY, GEQ	J	87-067-758-010		S-SCREW, BVT2+3-12 W/O SLOT
35	8A-NF3-067-010		KEY, BBE	K	87-067-975-010		S-SCREW, IT+4-8
36	8A-NF3-072-010		KEY, FUNC	L	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
37	8A-NF3-088-010		REFLECTOR, FUNC				
38	8A-NF3-068-010		KEY, JOG				
39	8A-NF3-062-010		KEY, DSP				
40	8A-NF3-069-010		KEY, SPICE				
41	8A-NF3-070-010		KEY, ECO				
42	8A-NF3-201-010		GUIDE, LED-FUNC				
43	8A-NF3-213-010		HLDR, HT-SINK L				
44	8A-NF3-214-010		HLDR, HT-SINK R				
45	8A-NF3-210-010		HLDR, SIDE L				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

14

15

16

PH(DECK 1)
RPH(DECK 2)

12

13

11

10

17

18 (DECK 2)

9

7

3

2

18 (DECK 1)

19

5

6

4

20

HEAD 1 C.B(DECK 1)
HEAD 2 C.B(DECK 2)

22

57 (DECK 1)

29 (DECK 2)

24

21

25

23

26

29 (DECK 2)

1

27

28

A

B

42



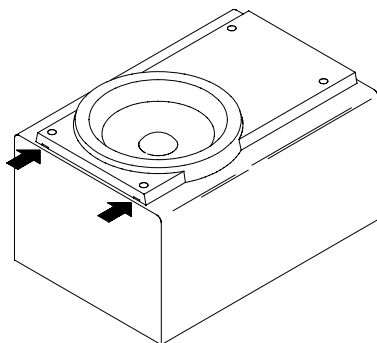
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-510		CHAS ASSY,M2	36	82-ZM3-339-010		SHAFT,COUPLER N3 (DECK 1)
2	82-ZM1-258-110		SPR-T,PINCH L	37	86-ZM1-206-010		BELT,MAIN L
3	82-ZM1-341-110		LVR ASSY,PINCH L2	38	82-ZM1-322-010		SPR-T,FR60
4	82-ZM1-333-010		PLATE,LINK 2	39	82-ZM1-220-210		GEAR,IDLER
5	82-ZM1-266-11K		LVR,DIR	40	82-ZM3-616-010		RING MAGNET 4
6	82-ZM1-214-010		SPR-T,DIR	41	82-ZM1-216-31K		GEAR,REEL
7	82-ZM1-206-81K		CHAS,HEAD	42	87-A90-319-010		HEAD,PH HADKH2 FPC
8	82-ZM3-340-010		SH,BELT D2	42	87-A90-320-010		HEAD,RPH HADKH5 FPC
9	82-ZM1-269-210		SPR-T,BRG	43	82-ZM1-225-21K		GEAR,FR
10	82-ZM1-219-110		SPR-T,LINK	44	82-ZM1-226-010		GEAR,REW
11	82-ZM1-210-110		GEAR,H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-010		SPR-T,HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-610		GUIDE,TAPE	47	82-ZM1-349-110		FLY-WHL,R W (DECK 2)
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM3-338-110		FLY-WHL,R3 W (DECK 1)
15	82-ZM1-314-110		PLATE,HEAD	48	82-ZM1-348-010		FLY-WHL,L W (DECK 2)
16	82-ZM1-208-110		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W (DECK 1)
17	82-ZM1-218-010		SPR-E,HB	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	87-045-347-019		MOT,SHU2L 70 (M1)
19	82-ZM1-222-21K		LVR,PLAY	52	82-ZM3-221-010		PULLEY,MOT 2M
20	82-ZM1-217-310		REEL TABLE	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C,BT	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	55	82-ZM3-335-210		PULLEY,COUPLER M3 (DECK 1)
23	82-ZM1-257-010		SPR-T,CAS	56	82-ZM3-337-010		BELT,SBU MOT 2
24	82-ZM1-241-310		LVR,MC	57	82-ZM3-339-010		SHAFT,COUPLER N3 (DECK 1)
25	82-ZM1-242-010		LVR,CAS	58	86-ZM1-206-010		BELT,MAIN L
26	82-ZM1-243-010		LVR,STOP	59	82-ZM3-340-010		SH,BELT D2
27	82-ZM1-344-110		LVR ASSY,PINCH R2	A	85-ZM3-202-010		S-SCREW,TG
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR,REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-310		SPR-E,LVR DIR	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2	E	82-ZM3-334-010		PW,2.16-6-0.4
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				
35	82-ZM1-265-110		SPR-E,TRIG				

SPEAKER DISASSEMBLY INSTRUCTIONS

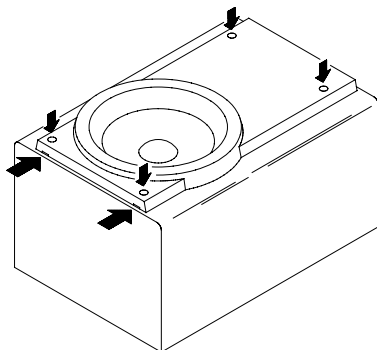
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



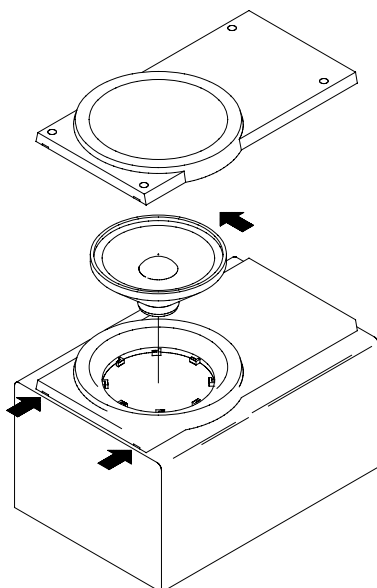
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

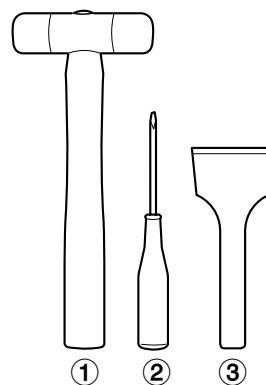


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

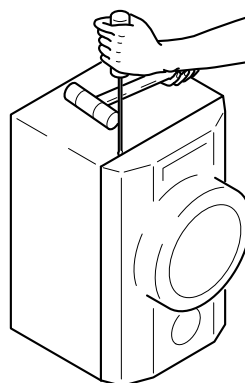


Fig-1

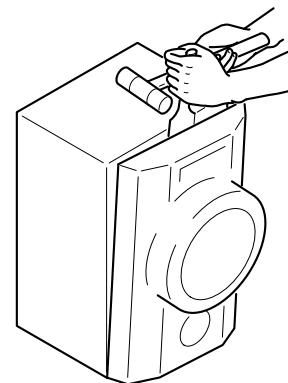


Fig-2

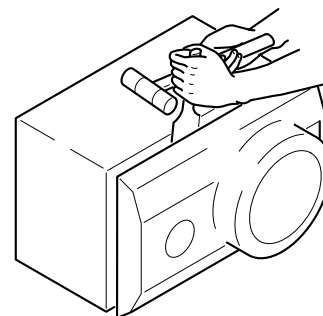


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST SX-WNT98 (YLSL)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NS3-001-010		PANEL, FR	11	88-NS5-610-010		CORD, SPKR
2	8A-NS3-002-010		PANEL, TW L	12	88-NS5-611-010		CORD, SPKR B/L
3	8A-NS3-003-010		PANEL, TW R	13	8A-NSJ-006-010		BADGE, AIWA S35
4	8A-NS3-006-010		PANEL, TOP	14	8A-NS3-014-010		CABI, TOP
5	8A-NS3-009-010		ADAPTOR	16	8A-NS3-004-010		PANEL, DUCT RING
6	8A-NS3-011-010		PROTECTOR, TWA	17	8A-NS3-005-010		PANEL, DUCT
7	8A-MS3-602-110		SPKR, W 200	18	8A-NS3-015-010		PANEL, DUCT SA
8	8A-NS3-602-010		SPKR, M 100	19	8A-NS3-010-010		PROTECTOR, SQA
9	8A-MS2-605-110		SPKR, TW 60	20	8A-NS3-017-010		PANEL, RING S
10	88-NSK-610-010		SPKR, CERAMIC ASSY				

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